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Übersicht der ShowView Leitzahlen

Deutschland

Leitzahl	Sendeanstalt	Sender- Kurzbezeichnung	Leitzahl	Sendeanstalt	Sender- Kurzbezeichnung
001	ARD	ARD	048	SLOVENIA 1	
002	ZDF	ZDF	049	SLOVENIA 2	
003	ARD (RADIO BREMEN)		078	TSA	
004	RTL PLUS	RTL	088	NEDERLAND 1	NL1
005	SAT 1	SAT	089	NEDERLAND 2	NL2
006	PRO 7	PRO	090	NEDERLAND 3	NL3
007	NTV	NTV	091	DANEMARK 1	DK1
008	KABELKANAL	KAB	092	DANEMARK 2	DK2
009	RTL 2	RT2	093	FRANCE 1	TF1
010	ARTE	ART	094	FRANCE 2	FR2
011	VOX	VOX	095	FRANCE 3	FR3
012	DEUTSCHES SPORT FERN	DSF	096	BELGIUM/FLAMISH 1	BN1
013	EURONEWS	EUN	097	BELGIUM/FLAMISH 2	BN2
014	AUSTRIA 1	OE1	098	BELGIUM/FRENCH 1	BF1
015	AUSTRIA 2	OE2	099	BELGIUM/FRENCH 2	BF2
016	SWISS TV (FRENCH)	CHF	101	SKY ONE	
017	WDR	WDR	102	SKY NEWS	
018	BAYERN 3 / BR	BAY	103	SKY MOVIES	
019	NDR NATIONAL / (SCHLESS-H)	NDR	104	THE MOVIE CHANNEL	
020	NDR (HAMBURG)	NDR	105	SKY SPORT	
021	NDR (NIEDER)	NDR	106	NICKELODEON / NICK AT NIGHT	
022	NDR (MECKLEN)	NDR	107	EUROSPORT	
023	SWISS TV (ITALIAN)	CHI	108	GALAVISION	
024	SWISS TV (GERMAN)	DRS	109	MTV EUROPE	
025	NDR (BREMER)	NDR	110	CHILDREN'S CHANNEL / THE FAMILY CHANNEL	
026	HESSEN 3	HR3	111	SKY MOVIES GOLD	
027	BERLIN 1	B1	112	BBC WORLD SERVICE	
029	SWF NATIONAL / (BADEN)	SWF	113	RTL 4	
030	SWF (RHEIN)	SWF	114	FILMNET +	
031	SWF (SAARLAND)	SWF	117	PREMIERE	
032	MDR (SACHSEN)	MDR	118	3 SAT	
033	MDR	MDR	119	ARD-1 PLUS	1PL
034	MDR (THÜRINGEN)	MDR	122	TELECLUB	TLC
035	ORB / FERNSEHEN BRANDENBURG	ORB	124	DISCOVERY	DIS
036	SENDER FREIES BERLIN	SFB	125	BRAVO	BRA
037	RTF (LETZEBURG)	RTF	126	CNN	CNN
038	K5 (BERLIN)	K5	131	RAI 1	
039	S+ (GERMAN SWISS 2)		133	TV5 EUROPE	TV5
040	TÜRKISH TELEVISION	TRT	134	TVE	
041	FERNSEHEN AUS BERLIN	FAB	144	SUPERCHANNEL	SUP
042	KABEL LUDWIGSHAFEN	VKK	158	CANAL +	
043	THEATERKANAL	THK	159	M6	
044	TV WEISS-BLAU	TWB	160	QVC	
045	OFFENER KANAL	OKA	161	UK LIVING	
046	TÜRKISCHES DEUT FERN	TD1	162	VIDEO HITS ONE	
047	MISCHKANAL	MKA			

Übersicht der ShowView Leitzahlen Österreich

Leitzahl	Sendeanstalt	Sender- Kurzbezeichnung	Leitzahl	Sendeanstalt	Sender- Kurzbezeichnung
001	ARD	ARD	102	SKY NEWS	
002	ZDF	ZDF	103	SKY MOVIES	
003	ARD (RADIO BREMEN)		104	THE MOVIE CHANNEL	
004	RTL PLUS	RTL	105	SKY SPORT	
005	SAT 1	SAT	106	NICKELODEON / NICK AT NIGHT	
006	PRO 7	PRO	107	EUROSPORT	
007	NTV	NTV	108	GALAVISION	
008	KABELKANAL	KAB	109	MTV EUROPE	
009	RTL 2	RT2	110	CHILDREN'S CHANNEL / THE FAMILY CHANNEL	
010	ARTE	ART	111	SKY MOVIES GOLD	
011	VOX	VOX	112	BBC WORLD SERVICE	
012	DEUTSCHES SPORT FERN	DSF	113	RTL 4	
013	EURONEWS	EUN	114	FILMNET +	
014	AUSTRIA 1	OE1	117	PREMIERE	
015	AUSTRIA 2	OE2	118	3 SAT	
016	SWISS TV (FRENCH)	CHF	119	ARD-1 PLUS	1PL
017	WDR	WDR	122	TELECLUB	TLC
018	BAYERN 3 / BR	BAY	123	UK GOLD	
019	NDR (SCHLESS-H)	NDR	124	DISCOVERY	DIS
020	NDR (HAMBURG)	NDR	125	BRAVO	BRA
021	NDR (NIEDER)	NDR	126	CNN	CNN
022	NDR (MECKLEN)	NDR	127	N3	
023	SWISS TV (ITALIAN)	CHI	128	WDR 3	
024	SWISS TV (GERMAN)	DRS	129	RAI 3	
025	NDR (BREMEIN)	NDR	130	ANGLIA	
026	HESSSEN 3	HR3	131	RAI 1	
027	BERLIN 1	B1	132	RAI 2	
029	SWF (BADEN)	SWF	133	TV5 EUROPE	TV5
030	SWF (RHEIN)	SWF	134	TVE INTERNATIONAL	
031	SWF (SAARLAND)	SWF	134	TVE	
032	MDR (SACHSEN)	MDR	135	MBC/ARABIC	
033	MDR	MDR	136	VTM	
034	MDR (THÜRINGEN)	MDR	137	SPORTNET	
035	FERNSEHEN BRANDENBURG	ORG	138	ETB 1	
036	SENDER FREIES BERLIN	SFB	139	ETB 2	
037	RTF (LETZEBURG)	RTF	140	TVE 1	
038	K5 (BERLIN)	K5	141	TVE 2	
039	S+ (GERMAN SWISS 2)		142	TRT INTERNATIONAL	
040	TÜRKISH TELEVISION	TRT	143	TV3	
041	FERNSEHEN AUS BERLIN	FAB	144	SUPERCHANNEL	SUP
042	KABEL LUDWIGSHAFEN	VKK	145	JAPAN TV	
043	THEATERKANAL	THK	146	TV ASIA	
044	TV WEISS BLAU	TWB	147	FILMNET MOVIES	
045	OFFENER KANAL	OKA	148	ARTE 21	
046	TÜRKISCHES DEUT FERN	TD1	158	CANAL +	
047	MISCHKANAL	MKA	159	M6	
048	SLOVENIA 1		160	QVC	
049	SLOVENIA 2		161	UK LIVING	
078	TSA		162	VIDEO HITS ONE	
101	SKY ONE				

Übersicht der ShowView Leitzahlen

Schweiz

Leitzahl	Sendeanstalt	Sender- Kurzbezeichnung	Leitzahl	Sendeanstalt	Sender- Kurzbezeichnung
001	ARD	ARD	101	SKY ONE	
002	ZDF	ZDF	102	SKY NEWS	
003	ARD (RADIO BREMEN)		103	SKY MOVIES	
004	RTL PLUS	RTL	104	THE MOVIE CHANNEL	
005	SAT 1	SAT	105	SKY SPORT	
006	PRO 7	PRO	106	NICKELODEON / NICK AT NIGHT	
007	NTV	NTV	107	EUROSPORT	
008	KABELKANAL	KAB	108	GALAVISION	
009	RTL 2	RT2	109	MTV EUROPE	
010	ARTE	ART	110	CHILDREN'S CHANNEL / THE FAMILY CHANNEL	
011	VOX	VOX	111	SKY MOVIES GOLD	
012	DEUTSCHES SPORT FERN	DSF	112	BBC WORLD SERVICE	
013	EURONEWS	EUN	113	RTL 4	
014	AUSTRIA 1 (ORF 1)	OE1	114	FILMNET +	
015	AUSTRIA 2 (ORF 2)	OE2	117	PREMIERE	
016	SWISS TV (FR) TSR	CHF	118	3 SAT	
017	WDR	WDR	119	ARD-1 PLUS	1PL
018	BAYERN 3 / BR	BAY	122	TELECLUB	TLC
019	NDR (SCHLESS-H)	NDR	123	UU Gold	
020	NDR (HAMBURG)	NDR	124	DISCOVERY	DIS
021	NDR (NIEDER)	NDR	125	BRAVO	BRA
022	NDR (MECKLEN)	NDR	126	CNN	CNN
023	SWISS TV (IT) TSI	CHI	127	N3	
024	SWISS TV (GE) DRS	DRS	128	WDR 3	
025	NDR (BREMEN)	NDR	129	RAI 3	
026	HESSEN 3	HR3	130	ANGLIA	
027	BERLIN 1	B1	131	RAI 1	
029	SWF (BADEN)	SWF	132	RAI 2	
030	SWF (RHEIN)	SWF	133	TV5 EUROPE	TV5
031	SWF (SAARLAND)	SWF	134	TVE	
032	MDR (SACHSEN)	MDR	135	MBC/ARABIC	
033	MDR	MDR	136	VTM	
034	MDR (THÜRINGEN)	MDR	137	SPORTNET	
035	FERNSEHEN BRANDENBURG	ORG	138	ETB 1	
036	SENDER FREIES BERLIN	SFB	139	ETB 2	
037	RTF (LETZEBURG)	RTF	140	TVE 1	
038	K5 (BERLIN)	K5	141	TVE 2	
039	S+ (GERMAN SWISS 2)		142	TRT INTERNATIONAL	
040	TÜRKISH TELEVISION	TRT	143	TV 3	
041	FERNSEHEN AUS BERLIN	FAB	144	SUPERCHANNEL	SUP
042	KABEL LUDWIGSHAFEN	VKK	145	JAPAN TV	
043	THEATERKANAL	THK	146	TV ASIA	
044	TV WEISS-BLAU	TWB	147	FILMNET MOVIES	
045	OFFENER KANAL	OKA	148	ARTE 21	
046	TÜRKISCHES DEUT FERN	TD1	158	CANAL +	
047	MISCHKANAL	MKA	159	M6	
048	SLOVENIA 1		160	QVC	
049	SLOVENIA 2		161	UK LIVING	
078	TSA		162	VIDEO HITS ONE	

Sommario dei numeri guida ShowView

Italy National

Numero programma televisivo ShowView	Emittenti televisive
001	RAI UNO
002	RAI DUE
003	RAI TRE
004	RETE 4
005	CANALE 5
006	ITALIA 1
007	TMC
008	RETE A
009	VIDEO MUSIC
010	ITALIA 7
011	CINQUESTELLE
012	ODEON
013	TELE + 1
014	TELE + 2
015	TELE + 3
016	SVIZZERA 8
017	TELE CAMPIONE
018	TELE CITY
019	ANTENNA 3
020	TELE REPORTER
021	SUPERSIX
022	ITALIA 8
023	ALTAITALIA TV
024	TV SVIZZERA
025	RETEMIA
026	TIVUITALA
027	TC CREMONA
071	CANAL JIMMY
082	EURONEWS
095	BBC1
096	BBC2
101	SKY ONE
102	SKY NEWS
103	SKY MOVIES
104	THE MOVIE CHANNEL
105	SKY SPORT
106	NICKELODEON / NICK AT NIGHT
107	EUROSPORT
108	GALAVISION
109	MTV EUROPE
110	CHILDREN'S CHANNEL / THE FAMILY CHANNEL
111	SKY MOVIES GOLD
112	BBC WORLD SERVICE
113	RTL 4
114	FILMNET +
115	RTL PLUS
116	SAT 1
117	PREMIERE
118	3 SAT
119	ARD-1 PLUS
120	PRO 7

Numero programma televisivo ShowView	Emittenti televisive
122	TELECLUB
123	UK GOLD
124	DISCOVERY
125	BRAVO
126	CNN
127	N3
128	WDR 3
129	RAI 3
130	ANGLIA
131	RAI 1
132	RAI 2
133	TV5 EUROPE
134	TVE INTERNATIONAL
135	MBC/ARABIC
136	VTM
137	SPORTNET
138	ETB 1
139	ETB 2
140	TVE 1
141	TVE 2
142	TRT INTERNATIONAL
143	TV3
144	SUPERCANNEL
145	JAPAN TV
146	TV ASIA
147	FILMNET MOVIES
148	ARTE 21
160	QVC
161	UK LIVING
162	VIDEO HITS ONE

Italy Zone 1

Numero programma televisivo ShowView	Emittenti televisive
038	TELE REGIONE
047	ANTENNA 1
048	JUNIOR TV
049	VIDEO CALABRIA
050	TELE JONICA
051	TELE SPAZIO
052	TELE SCIROCCO
053	TELE ACRAS
054	ANTENNA SICILIA
081	TELE TNA
088	VIDEO MEDITERRANEO

Sommario dei numeri guida ShowView

Italy Zone 10

Numero programma televisivo ShowView	Emittenti televisive
030	TELE STAR GENOVA
031	SARDEGNA 2
033	TELE CUPOLE 8
038	TELE REGIONE
039	TELE CITTA
042	CANALE 7
044	MIXER TV
048	PRIMO CANALE
049	SARDEGNA 1
049	SARDEGNA 1
051	TELE NORD
053	T. C. S.
055	TELE ARCOBAT.ENA
062	FRANCE 2
087	VIDEO LINA

Italy Zone 2

Numero programma televisivo ShowView	Emittenti televisive
030	TV OGGI SALERNO
031	TELE LIBERA 63
032	TRM
033	RETE CAPRI
034	TELE SVEVA
052	RETE 7
063	NAPOLI TV
073	TELE COLORE
093	TELE VESUVIANA

Italy Zone 3

Numero programma televisivo ShowView	Emittenti televisive
030	RTG PUGLIA
031	TVQ
032	OGGI TV
033	ANTENNA 10
034	GRAND ITALIA TV
035	TELE MARE
038	TELE REGIONE
061	DIFFUSIONE EUROPEA
066	RETE 8
067	RETE AZZURRA
068	SERENISSEMA TV
070	TELE ALTO VENETO
074	TELE DUE
077	TELE NUOVO
078	TELE PORDENONE
079	TELE PUGLIA
085	TVA TELEREGIONE

Italy Zone 4

Numero programma televisivo ShowView	Emittenti televisive
030	TELTEVERE
031	VIDEO FIRENZE
037	QUARTA RETE
047	ANTENNA 1
052	RETE 7
058	ANTENNA 5 EMPOLI
060	CANALE 66
064	RETE 37
066	RETE 8
072	T. R. E.
075	TELE LAZIO
076	TELE MAREMMA
080	TELE STUDIO
084	TV PARMA
086	UMBRIA TV
090	VIDEO UNO
091	RETE ORO
092	TELE UNIVERSO

Italy Zone 5

Numero programma televisivo ShowView	Emittenti televisive
030	VIDEO FIRENZE (YUNIO)
031	TELE TOSCANO
032	CANALE 39
033	T.E.F.
034	RETE VERSILIA
035	V. I. P.
037	QUARTA RETE
038	TELE REGIONE
058	ANTENNA 5 EMPOLI
060	CANALE 66
064	RETE 37
072	T. R. E.
075	TELE LAZIO
076	TELE MAREMMA
080	TELE STUDIO
086	UMBRIA TV
090	VIDEO UNO
091	RETE ORO
092	TELE UNIVERSO

Sommario dei numeri guida ShowView

Italy Zone 6

Numero programma televisivo ShowView	Emittenti televisive
030	TELE CAPRI
031	CANALE 34
032	TELE MODENA
033	TELE CENTRO TVA
034	VIDEO REGIONE
035	T. R. M.
036	TVRS CINQUESTELLE
037	TELE RADIOCITTÀ
047	ANTENNA 1
052	RETE 7
056	ITALIA TVC MARCHE
059	CANALE 21
063	NAPOLI TV
066	RETE 8
069	SESTA RETE
073	TELE COLORE
074	TELE DUE
079	TELE PUGLIA
093	TELE VESUVIANA
093	TV PARMA

Italy Zone 7

Numero programma televisivo ShowView	Emittenti televisive
030	VIDEO 3 T.C.I.
031	TVA VICENZA
032	RTTR
033	TELE FRIULE
034	TELE MONICA
035	TELE VENEZIA
036	ITALIA 9
037	TELE PADOVA
038	TGS SICILIA
039	TELE PACE
040	TELE CHIARA
041	TELE COMMERCIALA AL
042	RETE NORD
043	TELE CORTINA
044	TV 7 PATHE
045	TVA TRENTO
046	GRANAE ITALIA TV
047	TELE ARENA
048	TV 7
049	SARDEGMA 1
050	G.R.P.
051	TELE VENEZIA CINQUEST.
052	RETE 7
052	TELE ANTENNA
053	T.C.S
054	TELE QUATTRO GT
055	TELE SUD TIROL

Numero programma televisivo ShowView	Emittenti televisive
059	CANALE 21
061	DIFFUSIONE EUROPEA
067	RETE AZZURRA
068	SERENISSIMA TV
070	TELE ALTO VENETO
077	TELE NUOVO
078	TELE PORDENONE
081	TELE TNA
085	TVA TELEREGIONE
087	VIDEO LINA
088	VIDEO MEDITERRANEO

Italy Zone 8

Numero programma televisivo ShowView	Emittenti televisive
012	QUADRIFOGLIO ODEON
030	TELE STAR
031	QUADRIFOGLIO TV
032	PRIMANTENNA
033	TELE VALLE D'AOSTA A
034	VCO AZZURA TV
035	VIDEO GRUPPO
036	TELE ALPI
037	QUARTA RETE TV
038	TELE MONTE ROSA
039	TIEFFEG
040	VIDEO PRODENONE
041	EUREUNO TV
042	TELE VOX
043	TELE TIME
044	TELE SUISSE RUMANDA
045	RETE 9 TAI
046	RETE CANUESE
050	G.R.P.
052	RETE 7 PIEMONTE
057	TELE SUBALPINA
062	FRANCE 2
069	SESTA RETE
080	TELE STUDIO
089	VIDEO NOVARA
090	VIDEO UNO

Sommario dei numeri guida ShowView

Italy Zone 9

Numero programma televisivo ShowView	Emittenti televisive
030	TELE STAR
031	TELE LOMBARDIA
032	TELE NOVA
033	TELE STAR LOMBARDIA
034	LOMBARDIA 7 TV
035	TELE COLOR CREMONA
036	BERGAMO TV
037	TELE BS
038	TELE GARDA
039	TELE GRANADA
040	RETE 55
041	RETE UNICA
042	TELE MILANO
043	TELE TUTTO
054	RADIO TELEGARDA
062	FRANCE 2

Sommaire des numéros-guides ShowView Belgium

Numéro ShowView Station émettrice

001	TF1
002	FRANCE 2
003	FRANCE 3
004	CANAL +
005	ARTE
006	M6
008	NEDERLAND 1
009	NEDERLAND 2
010	NEDERLAND 3
011	BRT 1
012	BRT 2
015	ZDF
016	SPORT 21
017	RTBF
019	EINS PLUS
024	TSR
025	CANAL J
029	RTL TV
030	SW 3
033	TMC
042	TV SPORT
049	ATV
050	AVS
051	ANTENNE CENTRE
052	CANAL C
053	CANAL ZOOM
054	NO TELE
055	R.T. VOUL
056	RTC TELE LIEGE
057	RTL TVI
058	TELE BRUXELLES
059	TELE M/B
060	TELE VESDRE
061	TELESANMBRE
062	TEVE 2
063	TV COM
064	VIDEO SCOPE
065	VIDEOTRAME
066	1 PLUS
067	SKY CHANNEL
068	TVS
069	RTL 2
070	RTP 1
071	CANAL JIMMY
074	RTP 1
076	CANAL + BELGIQUE
082	EURONEWS
086	RETE 4
089	LIFELINE
090	TCC
091	RFO
092	COUNTRY MUSIC TV
095	BBC1

Numéro ShowView Station émettrice

096	BBC2
097	ITV
098	CHANNEL 4
101	SKY ONE
102	SKY NEWS
103	SKY MOVIES
104	THE MOVIE CHANNEL
105	SKY SPORT
106	NICKELODEON / NICK AT NIGHT
107	EUROSPORT
108	GALAVISION
109	MTV EUROPE
110	CHILDREN'S CHANNEL / THE FAMILY CHANNEL
111	SKY MOVIES GOLD
112	BBC WORLD SERVICE
113	RTL 4
114	FILMNET +
115	RTL PLUS
116	SAT 1
117	PREMIERE
118	3 SAT
119	ARD-1 PLUS
120	PRO 7
122	TELECLUB
123	UK GOLD
124	DISCOVERY
125	BRAVO
126	CNN
127	N3
128	WDR 3
129	RAI 3
130	ANGLIA
131	RAI 1
132	RAI 2
133	TV5 EUROPE
134	TVE INTERNATIONAL
135	MBC/ARABIC
136	VTM
137	SPORTNET
138	ETB 1
139	ETB 2
140	TVE 1
141	TVE 2
142	TRT INTERNATIONAL
143	TV3
144	SUPERCHANNEL
145	JAPAN TV
146	TV ASIA
147	FILMNET MOVIES
148	ARTE 21
160	QVC
161	UK LIVING
162	VIDEO HITS ONE

Sommaire des numéros-guides ShowView

France

Numéro ShowView	Station émettrice	Numéro ShowView	Station émettrice
001	TF1	091	RFO
002	FRANCE 2	092	COUNTRY MUSIC TV
003	FRANCE 3	095	BBC1
004	CANAL +	096	BBC2
005	ARTE	098	CHANNEL 4
006	M6	101	SKY ONE
013	SERIE CLUB	102	SKY NEWS
014	DSF	103	SKY MOVIES
015	ZDF	104	THE MOVIE CHANNEL
016	SPORT 21	105	SKY SPORT
017	RTBF	106	NICKELODEON / NICK AT NIGHT
018	ITALIA 1	107	EUROSPORT
019	EINS PLUS	108	GALAVISION
020	DRS	109	MTV EUROPE
021	TELESOLEIL	110	CHILDREN'S CHANNEL / THE FAMILY CHANNEL
022	RTL LORRAINE	111	SKY MOVIES GOLD
023	TSI	112	BBC WORLD SERVICE
024	TSR	113	RTL 4
025	CANAL J	114	FILMNET +
026	EPINAL IMAGES	115	RTL PLUS
027	MARSEILLE	116	SAT 1
028	MCM EUROMUS	117	PREMIERE
029	RTL TV	118	3 SAT
030	SW 3	119	ARD-1 PLUS
031	TELE TOULOUSE	120	PRO 7
032	TLM LYON	122	TELECLUB
033	TMC	123	UK GOLD
034	TV RENNE	124	DISCOVERY
035	PARIS PREMIERE	125	BRAVO
036	PLANETE	126	CNN
037	CINE CINEMAS	127	N3
038	CINE CINEFIL	128	WDR 3
039	CANAL 5	129	RAI 3
040	8 MONTE-BLANC	130	ANGLIA
041	TV 10 ANGERS	131	RAI 1
042	TV SPORT	132	RAI 2
043	YVELINE PREMIERE	133	TV5 EUROPE
044	CANAL AVIGNON	134	TVE INTERNATIONAL
045	CANAL INFOS	135	MBC/ARABIC
046	CANAL 40 NICE	136	VTM
047	PARIS 1	137	SPORTNET
048	TELE SHOPPING	138	ETB 1
057	RTL TVI	139	ETB 2
069	RTL 2	140	TVE 1
070	RTP 1	141	TVE 2
071	CANAL JIMMY	142	TRT INTERNATIONAL
074	RTP 1	143	TV3
075	B.B. COM	144	SUPERCHANNEL
076	CANAL + BELGIQUE	145	JAPAN TV
077	TMI	146	TV ASIA
078	TSA	147	FILMNET MOVIES
082	EURONEWS	148	ARTE 21
088	RETE 4	160	QVC
089	LIFELINE	161	UK LIVING
090	TCC	162	VIDEO HITS ONE

Sommaire des numéros-guides ShowView

Luxembourg

Numéro ShowView Station émettrice

001	TF1
002	FRANCE 2
003	FRANCE 3
004	CANAL +
005	ARTE
006	M6
008	NEDERLAND 1
009	NEDERLAND 2
010	NEDERLAND 3
011	BRT 1
012	BRT 2
015	ZDF
016	SPORT 21
017	RTBF
019	EINS PLUS
024	TSR
025	CANAL J
029	RTL TV
030	SW 3
033	TMC
042	TV SPORT
057	RTL TVI
071	CANAL JIMMY
076	CANAL + BELGIQUE
082	EURONEWS
095	BBC1
096	BBC2
101	SKY ONE
102	SKY NEWS
103	SKY MOVIES
104	THE MOVIE CHANNEL
105	SKY SPORT
106	NICKELODEON / NICK AT NIGHT
107	EUROSPORT
108	GALAVISION
109	MTV EUROPE
110	CHILDREN'S CHANNEL / THE FAMILY CHANNEL
111	SKY MOVIES GOLD
112	BBC WORLD SERVICE

Numéro ShowView Station émettrice

113	RTL 4
114	FILMNET +
115	RTL PLUS
116	SAT 1
117	PREMIERE
118	3 SAT
119	ARD-1 PLUS
120	PRO 7
122	TELECLUB
123	UK GOLD
124	DISCOVERY
125	BRAVO
126	CNN
127	N3
128	WDR 3
129	RAI 3
130	ANGLIA
131	RAI 1
132	RAI 2
133	TV5 EUROPE
134	TVE INTERNATIONAL
135	MBC/ARABIC
136	VTM
137	SPORTNET
138	ETB 1
139	ETB 2
140	TVE 1
141	TVE 2
142	TRT INTERNATIONAL
143	TV3
144	SUPERCHANNEL
145	JAPAN TV
146	TV ASIA
147	FILMNET MOVIES
148	ARTE 21
160	QVC
161	UK LIVING
162	VIDEO HITS ONE

"Overzicht van de ShowView-richtnummers" en Nederland

ShowView nummer	Omroeporganisaties
001	TF1
002	FRANCE 2
003	FRANCE 3
004	CANAL +
005	ARTE
006	M6
008	NEDERLAND 1
009	NEDERLAND 2
010	NEDERLAND 3
011	BRT 1
012	BRT 2
015	ZDF
016	SPORT 21
017	RTBF
019	EINS PLUS
029	RTL TV
030	SW 3
042	TV SPORT
057	RTL TVI
069	AFN
070	LOKALE TV
071	CANAL JIMMY
072	TV PLUS
073	KINDERNET
076	CANAL + BELGIQUE
082	EURONEWS
095	BBC1
096	BBC2
101	SKY ONE
102	SKY NEWS
103	SKY MOVIES
104	THE MOVIE CHANNEL
105	SKY SPORT
106	NICKELODEON / NICK AT NIGHT
107	EUROSPORT
108	GALAVISION
109	MTV EUROPE
110	CHILDREN'S CHANNEL / THE FAMILY CHANNEL
111	SKY MOVIES GOLD
112	BBC WORLD SERVICE

ShowView- nummer	Omroeporganisaties
113	RTL 4
114	FILMNET +
115	RTL PLUS
116	SAT 1
117	PREMIERE
118	3 SAT
119	ARD-1 PLUS
120	PRO 7
122	TELECLUB
123	UK GOLD
124	DISCOVERY
125	BRAVO
126	CNN
127	N3
128	WDR 3
129	RAI 3
130	ANGLIA
131	RAI 1
132	RAI 2
133	TV5 EUROPE
134	TVE INTERNATIONAL
135	MBC/ARABIC
136	VTM
137	SPORTNET
138	ETB 1
139	ETB 2
140	TVE 1
141	TVE 2
142	TRT INTERNATIONAL
143	TV3
144	SUPERCHANNEL
145	JAPAN TV
146	TV ASIA
147	FILMNET MOVIES
148	ARTE 21
153	RTL 5
160	QVC
161	UK LIVING
162	VIDEO HITS ONE

- (DK) **Oversigt over ShowView-koderne**
 (N) **Oversikt over ShowView kodetallene**
 (S) **Översikt över ShowView sifferkoderna**
 (SF) **ShowView-kanavatunnuslukujen luettelo**

ShowView-koden	TV-stationen
ShowView kodetall	Sendesentralens
ShowView-kodnummer	Sändarstationen
ShowView-tunnusluku	lähetinasema
<hr/>	
001	KANAL 1 SWEDEN
002	NRK
003	TV1 FINLAND
004	DR
005	TV2 SWEDEN
006	TV2 DENMARK
007	TV2 NORWAY
008	TV2 FINLAND
009	TV3 SWEDEN
010	TV4 SWEDEN
011	TV NORGE
012	TV3 DENMARK
013	TV3 NORWAY
014	TV5 NORDIC
015	MTV3 FINLAND
016	PTV
017	VIIHDEKANAVA
018	TV OSLO
019	FINSK NACKA
040	DAN/LOC ALBORG 54
040	DAN/LOC ARHUS 23
040	DAN/LOC FREDERICI 60
040	DAN/LOC KOBENHAVN 60
040	DAN/LOC NAESTVELD 23
040	DAN/LOC ODENSE 49
040	DAN/LOC SVENDBORG 43
041	DAN/LOC KOBENHAVN 23
041	DAN/LOC SLAGELSE 60
042	DAN/LOC ROSKILDE 55
044	DAN/LOC LOLL FALST 60
046	Z-TV
060	ARD
061	ZDF
062	DEUTSCHE WELLE
063	NTV
082	EURONEWS

ShowView-koden	TV-stationen
ShowView kodetall	Sendesentralens
ShowView-kodnummer	Sändarstationen
ShowView-tunnusluku	lähetinasema
<hr/>	
101	SKY ONE
102	SKY NEWS
106	NICKELODEON / NICK AT NIGHT
107	EUROSPORT
109	MTV EUROPE
110	CHILDREN'S CHANNEL / THE FAMILY CHANNEL
112	BBC WORLD SERVICE
113	RTL 4
114	FILMNET +
115	RTL PLUS
116	SAT 1
118	3 SAT
119	ARD-1 PLUS
120	PRO 7
124	DISCOVERY
126	CNN
127	N3
131	RAI 1
133	TV5 EUROPE
135	MBG
142	TRT INTERNATIONAL
144	SUPER CHANNEL
147	FILMNET MOVIES
149	T.N.T. / CARTOON NETWORK
150	VOX
151	TV 1000
152	RTL 2
154	HORISONT
155	WORLDNET
156	MCM FRANCE
157	DSF
160	QVC
161	UK LIVING
162	VIDEO HITS ONE
163	NDR
164	FILM MAX

Resumen de los números ShowView

Spain

Número ShowView	Centros de televisión
001	TVE 1
002	2-TVE / LA-2
003	ANTENNA 3
005	TELE 5
007	CANAL +
009	CANAL 9
010	CANAL 33
011	TV 3
012	TV 3 VALENCIA
013	ETB 1
014	ETB 2
015	TELEMADRID
016	CANAL SUR
017	TV GALEGA
018	EUSKAL TELEBISTA
071	CANAL JIMMY
101	SKY ONE
102	SKY NEWS
103	SKY MOVIES
104	THE MOVIE CHANNEL
105	SKY SPORT
107	EUROSPORT
108	GALAVISION
109	MTV EUROPE
110	CHILDREN'S CHANNEL / THE FAMILY CHANNEL
111	SKY MOVIES GOLD
112	BBC WORLD SERVICE
113	RTL 4

Número ShowView	Centros de televisión
114	FILMNET +
115	RTL PLUS
116	SAT 1
117	PREMIERE
118	3 SAT
119	ARD-1 PLUS
120	PRO 7
122	TELECLUB
123	UK GOLD
124	DISCOVERY
125	BRAVO
126	CNN
127	N3
128	WDR 3
129	RAI 3
130	ANGLIA
131	RAI 1
132	RAI 2
133	TV5 EUROPE
134	TVE INTERNATIONAL
135	MBC/ARABIC
136	VTM
137	SPORTNET
142	TRT INTERNATIONAL
144	SUPERCANNEL
145	JAPAN TV
146	TV ASIA
147	FILMNET MOVIES
148	ARTE 21

List of U.K. VIDEO plus+ stations codes

Code	TV Channel
001	BBC 1
002	BBC 2
003	ITV
004	CHANNEL 4
005	RTE (IRELAND)
006	NETWORK 2 (IRELAND)
101	SKY ONE
102	SKY NEWS
103	SKY MOVIES
104	THE MOVIE CHANNEL
105	SKY SPORT
106	NICKELODEON/NICK AT NIGHT
107	EUROSPORT
108	GALAVISION
109	MTV EUROPE
110	CHILDREN'S CHANNEL/THE FAMILY CHANNEL
111	SKY MOVIES GOLD
112	BBC WORLD SERVICE
113	RTL 4
114	FILMNET +
115	RTL PLUS
116	SAT 1
117	PREMIERE
118	3 SAT
119	ARD-1 PLUS
120	PRO 7
122	TELECLUB
123	UK GOLD
124	DISCOVERY
125	BRAVO
126	CNN
127	EURONEWS
128	THE LEARNING CHANNEL
129	QVC
130	UK LIVING
131	RAI 1
132	RAI 2
133	TV 5 EUROPE
134	TVE INTERNATIONAL
135	MBC/ARABIC
136	VTM
137	SPORTNET
138	VIDEO HITS ONE
144	SUPERCHANNEL
145	JAPAN TV
147	FILMNET MOVIES
149	T.N.T./CARTOON NETWORK



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OPERATING MANUAL VR 948

Congratulations! You now own one of the most sophisticated yet simple-to-use video recorders on the market.

Naturally, you can't wait to use your new video recorder, but before you start, it's worthwhile taking the time to read through this operating manual. Acquainting yourself with the video recorder's features is the best way to guarantee trouble-free operation. Once you know your video recorder, you won't need to worry about damaging the video recorder by pressing the wrong button, and you can practice using its many features.



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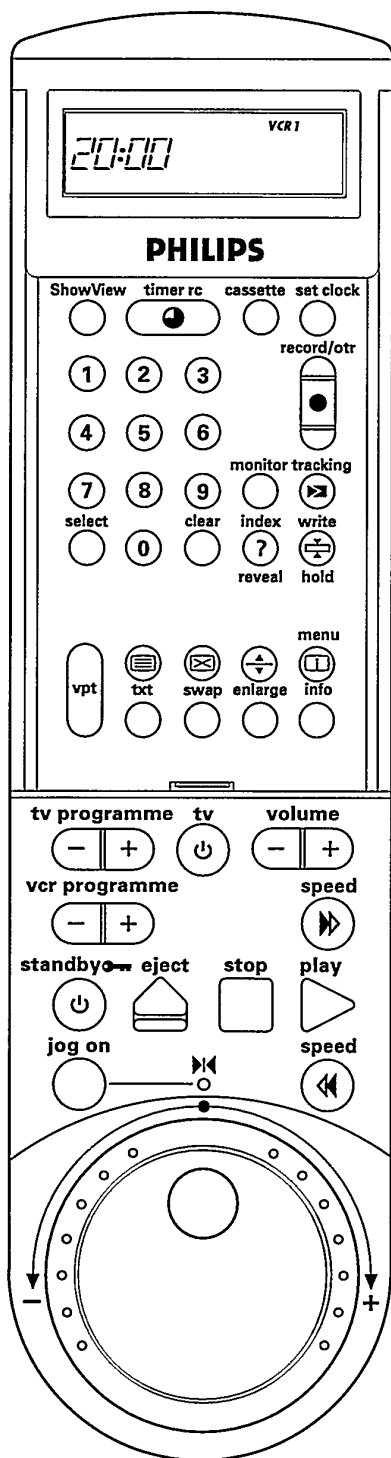
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1. BUTTONS, CONTROLS AND SOCKETS

Here are all the buttons and sockets which you will find on your video recorder and remote control. Explanations of the individual functions of these buttons and sockets are given in the corresponding chapters.

The remote control



Open the remote control's cover

- RECORD / OTR** Recording
- TIMER RC** TIMER programming on the remote control
- STANDBY** Switch off/Child lock
- EJECT** Cassette eject
- CASSETTE** Tape length selection
- SELECT** Function selection
- SET CLOCK** Setting the clock on the remote control
- TRACKING** Auto tracking, Fine tuning
- 0 - 9** Digits buttons
- VCR PROGRAMME -/+** Minus/Plus
- INDEX** VISS search function
- WRITE** Setting the VISS-mark
- MONITOR** TV monitor function
- SHOWVIEW** TIMER programming with ShowView
- CLEAR** Clear/Delete
- REVEAL ?** Reveal concealed TXT information
- HOLD** TXT – page hold (stop)
- TXT** TXT – on/off
- SWAP** TXT – off (temporary)
- ENLARGE** TXT – enlarge character size
- MENU/INFO** Menu button and TXT table of contents
- VPT** TXT programming (VPT)
- TXT special buttons: RED, GREEN, YELLOW, BLUE**
- << SPEED** Rewind/Picture search reverse
- PLAY** Playback
- SPEED >>** Wind/Picture search forwards
- STOP** Stop/Pause
- Single picture/Picture search button (Jog/Shuttle)**
- JOG ON** Single picture/ Picture search function on/off



Additional TV functions

(only for TV sets with the same remote control code):

TV PROGRAMME -/+

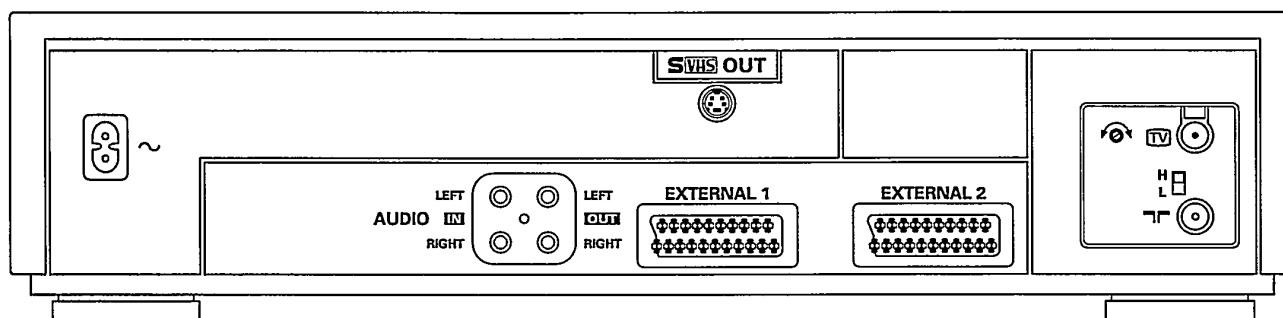
TV VOLUME -/+

TV

Note:

* If you press the **TV PROGRAMME -** and **+** buttons simultaneously, you can directly call up the channel number » AV « (EXT 1).

The back of the video recorder



Mains socket

Aerial output socket

Aerial input socket

EXTERNAL 1 AV-Euroconnection 1 (Scart)

EXTERNAL 2 AV-Euroconnection 2 (Scart)

S-VHS OUT S-VHS-output (Hosiden)

L/H Attenuator switch

AUDIO IN RIGHT Audio input, right channel

AUDIO IN LEFT Audio input, left channel

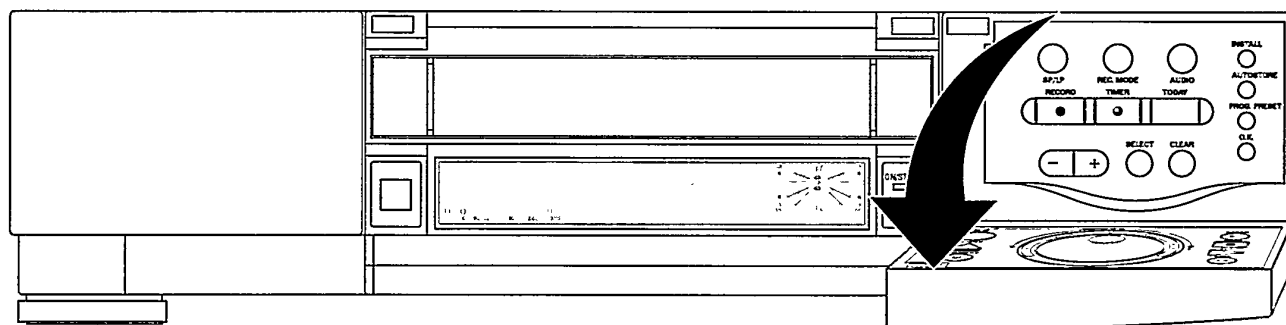
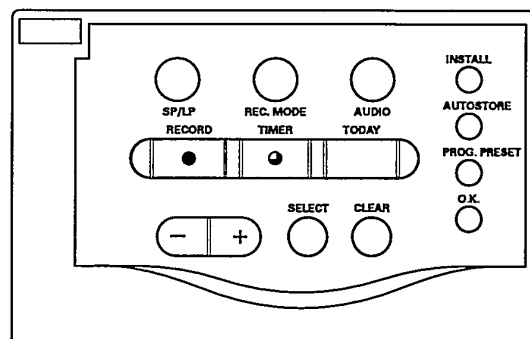
AUDIO OUT RIGHT Audio output, right channel

AUDIO OUT LEFT Audio output, left channel

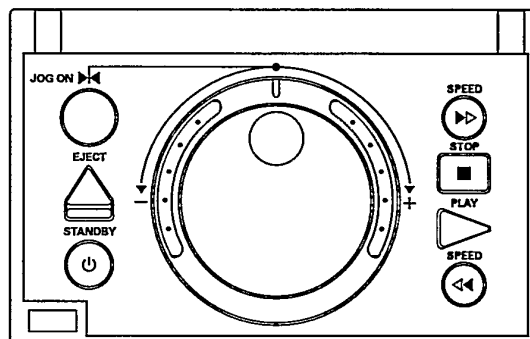


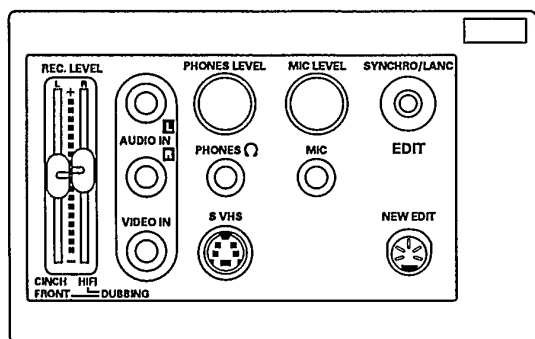
The front of the video recorder

- SP / LP** Standard-/Long play time
- REC. MODE** Recording mode
- AUDIO** Audio selection
- RECORD** Recording/OTR
- TIMER** TIMER programming
- TODAY** TODAY programming
- / +** VCR programme minus/plus
- SELECT** Function selection
- CLEAR** Clear/Delete
- INSTALL** Installation
- AUTOSTORE** Automatic station search
- PROG. PRESET** Allocating TV stations
- O.K.** Confirm button

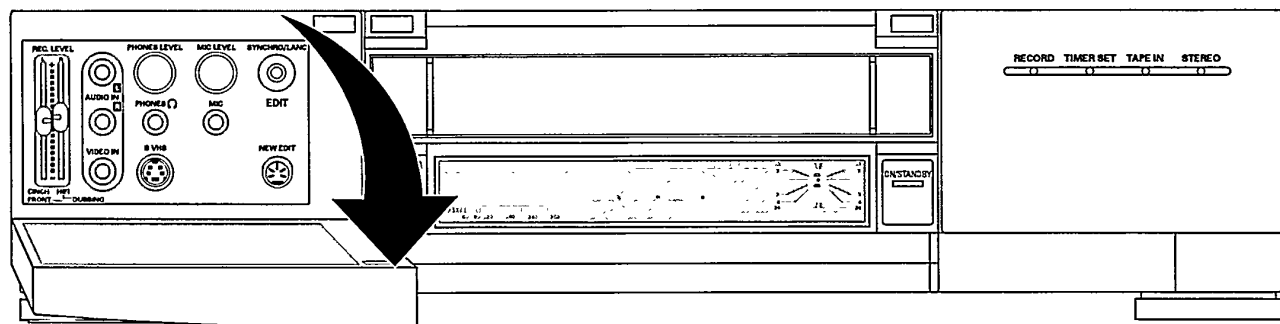


- JOG ON** Single picture/Picture search on/off
- EJECT** Cassette eject
- STANDBY** Switch off
- /+** Single picture/Picture search button (Jog/Shuttle)
- SPEED** Wind/Picture search forwards
- STOP** Stop/Pause
- PLAY** Playback
- ◀◀ SPEED** Rewind Picture search reverse





- L REC. LEVEL R** Recording sound level control
- L AUDIO IN R** Audio input sockets
- VIDEO IN** Video input socket
- NEW EDIT** Synchronization edit socket
- SYNCHRO LANC** Synchronization edit socket
- S-VHS** Video input socket
- MIC** Microphone socket
- MIC LEVEL** Microphone recording level control
- PHONES** Headphones socket
- PHONES LEVEL** Headphones volume adjustment

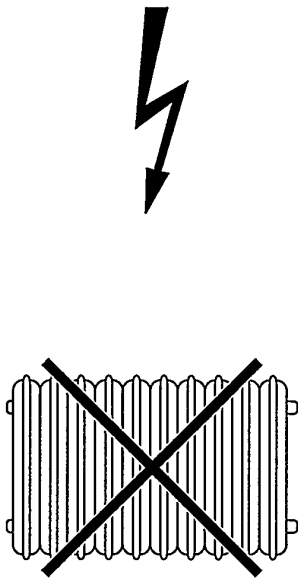


Seven-segment display:

- RECORD** Recording function
- TIMER SET** Timer activated
- TAPE IN** Cassette inserted
- STEREO** Stereo reception
- ON / STANDBY** Green = video recorder on
Red = video recorder off
- S VHS** Lights up when the video recorder is switched on



Safety instructions and safety measures




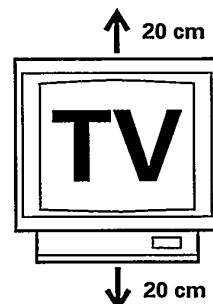
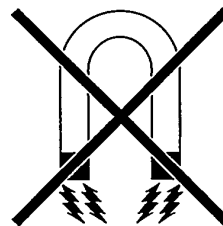
- The manufacturer cannot be held responsible for any damage which is incurred by not using the video recorder in compliance with the national guarantee conditions or safety instruction.
- First check if your supply voltage is the same as that written on the type plate on the rear of your video recorder.
- **Danger – high voltage in this appliance! Do not open!** The video recorder does not contain any parts that can be repaired by the user. As long as the video recorder is connected to the mains, there are parts of it still in operation. To switch off the video recorder completely you must disconnect it from the mains.
- Ensure that air can circulate freely through the video recorder's ventilation openings. Do not place the video recorder on soft surfaces.
- Protect this video recorder from rain and moisture. Ensure that no objects or liquids enter it. If liquid is spilled into the video recorder, immediately disconnect the video recorder from the mains and consult a qualified service technician.
- Do not place the video recorder close to sources of heat (radiators, etc.)
- **Warning! Lithium battery.** The lithium battery can explode if it is improperly handled. It must be removed by qualified technicians only (as described in the service documentation).

Precautions

- Do not use your video recorder immediately after moving it from a cold to a warm location or vice versa, or under conditions of high humidity. Before setting up the video recorder, it should be allowed to acclimatise for at least three hours after unpacking.



- Do not place the video recorder near appliances which generate strong magnetic fields (e.g., motors, loud-speakers and transformers).
- Do not use the video recorder in dusty places or where it may be subject to vibration. During severe thunderstorms (with lightning), we recommend disconnecting the video recorder from the mains and the aerial .
- Ensure that there is a vertical distance of at least 20 cm between the video recorder and your TV set.
- Do not put your fingers or any other foreign objects into the the cassette loading slot as this could damage the drive mechanism. Be particularly careful with children.
- If you have to transport your video recorder, be sure to remove the video cassette from the cassette loading slot and avoid sudden or violent jolts.



ShowView is a trademark applied for Gemstar Development Corp.
ShowView system manufactured under licence from Gemstar Development.

SHOWVIEW

This video recorder operates in accordance with the VHS cassette standard. Use only cassettes of a well-known brand which display the VHS symbol. We recommend that you use PHILIPS VHS video cassettes to ensure the best possible picture quality from your video recorder.



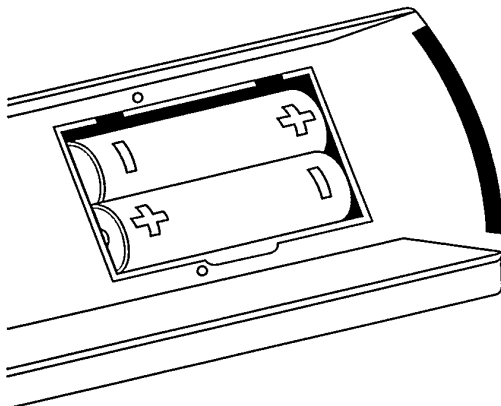
This operating manual is printed on chlorine-free paper. This is to help protect our environment. Used batteries should not be thrown away with ordinary domestic refuse. Deposit old batteries at the relevant collection points.



Please note that the "GRÜNER PUNKT" (green dot) recycling plan is currently active in **only** some European countries.



2. INSTALLATION: HOW DO I INSTALL THE VIDEO RECORDER?



How do I put the batteries into the remote control?

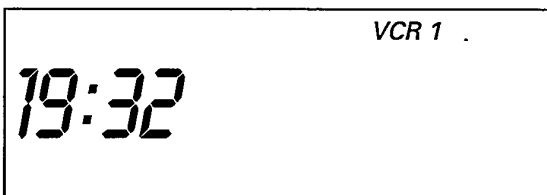
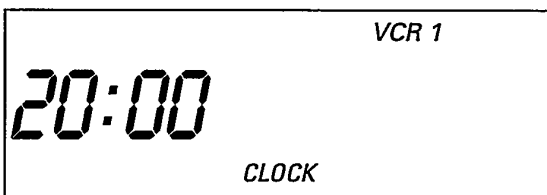
- 1 Remove the cover from the back of the remote control.
- 2 Insert the batteries as indicated into the battery compartment and close the cover.

Note:

* Do not use rechargeable batteries in this remote control.

How do I set the clock on the remote control?

If the clock is not correctly adjusted, (after having changed the batteries, for example), the data will flash on the remote control display.

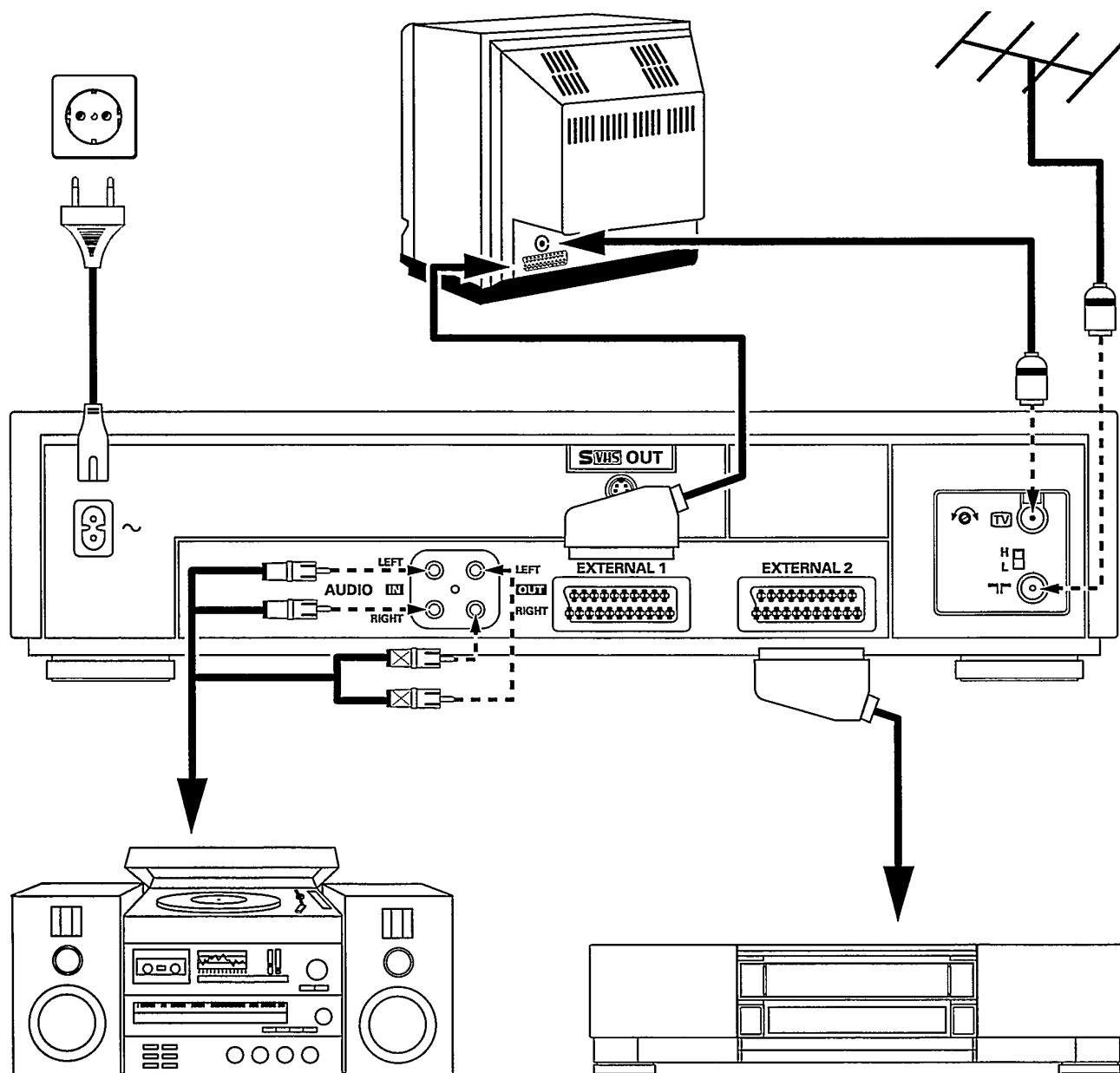


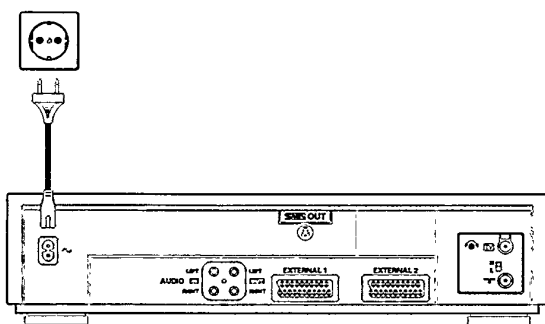
- 1 Press the button **SET CLOCK** on the remote control.
» 20:00 « appears in the display, accompanied by the flashing words » CLOCK « and » VCR 1 «.
- 2 Now set the precise time by pressing button **VCR PROGRAMME -** or **+**, or use the digit buttons **0-9**. The clock will start again only after step 3 has been completed.
If you do not want to change the data displayed, press button **STANDBY** on the remote control.
- 3 To conclude, press **SET CLOCK** on the remote control once more.




Connecting your video recorder

The following sections provide detailed explanations to this overview.





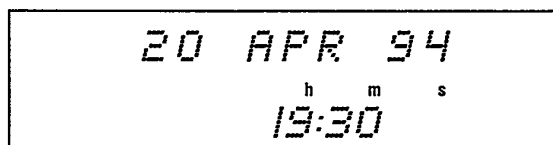


Connecting to the mains supply

- 1 Insert the female plug of the mains cable into the mains socket  at the rear of the video recorder.
- 2 Insert the plug at the other end of the mains cable into the wall socket.

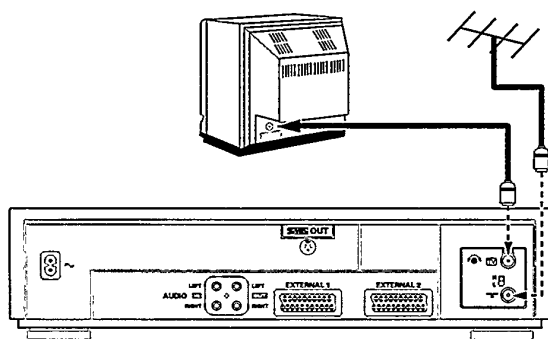
A few important notes for operation:



- The video recorder should remain connected to the mains at all times to ensure that programmes intended for recording can be made and that the television works. The power consumption is very low.
- No special button is required to switch on the video recorder. It switches itself on as soon as a cassette is loaded or when any of the tape transport buttons are pressed (for example, ).
- If you have switched off the video recorder with button , the date and current time appear in the display; for example, » 20 APR 94 19:30 «.



Connecting to the aerial

Your video recorder could actually be referred to as a TV set without a screen. This is why you have to connect it to an aerial as well as to the TV set. Only then can you make recordings and play cassettes.



- 1 Remove the aerial cable plug from the TV set and insert it into the socket  at the rear of the video recorder.
- 2 Use the aerial cable provided to connect the socket  on the video recorder to the aerial input socket on your TV set.

Both the TV set and the video recorder are now connected to the aerial.



Connecting to the TV set

In order for the picture/sound signal to reach the television from the video recorder, you must connect the video recorder and the television using the delivered Euro AV-cable **or** the (S-VHS) **and** cinch cable (refer to figure below).

If your TV set does not have an **AV-Euroconnector**, the following **does not** apply to you. Instead, read Chapter 8, "Particular functions and Extras". You will find more information in the section "Playback via the aerial cable".

Connecting to the Euro-AV socket

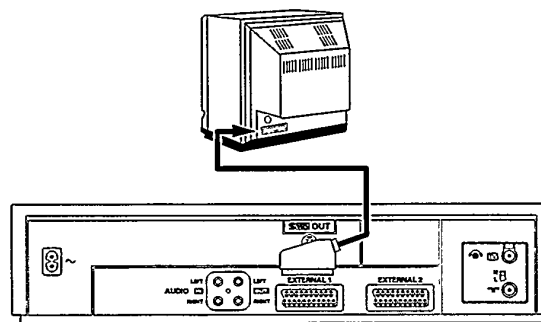
- 1 Insert the plug of one of the AV-Eurocables into the orange AV-Euroconnector **EXTERNAL 1** on the back of the video recorder. Connect the other plug to the TV set.
- 2 Many modern TV sets automatically switch over to the programme number » EXT « (External) or » AV « (audio/visual) with help of this cable connection from the videorecorder during playback.

On older TV sets, you must select the programme number » EXT «, » 0 «, or » AV « for playback. For further information, refer to the operating manual of your TV set.

Your video recorder is now **fully** connected to the TV set.

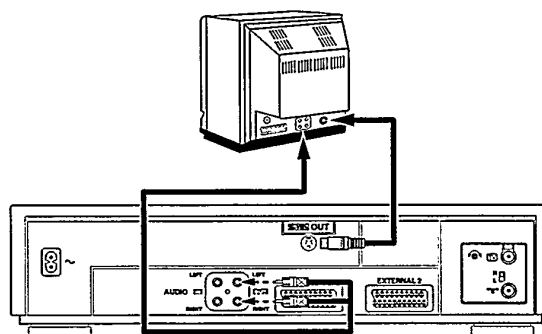
Notice:

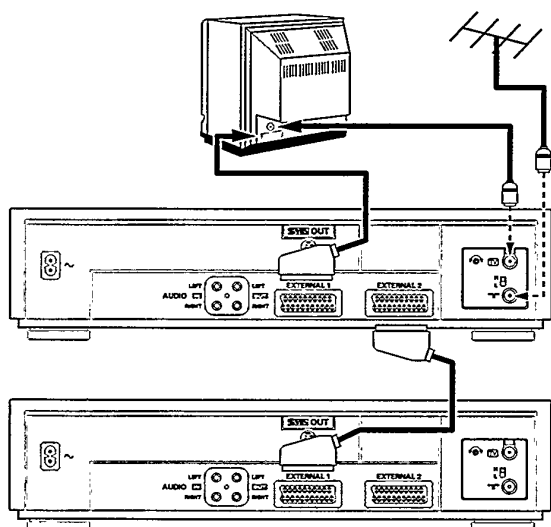
*If you own a TV set whose Euro-AV socket is suitable for S-VHS operation, please observe point 10 on page 18.



Connecting to the S-VHS-socket

- 1 Connect the socket **S-VHS OUT** with the corresponding input socket on the TV set.
- 2 Connect the sound output socket **AUDIO OUT** with the corresponding sound input socket on the TV set.



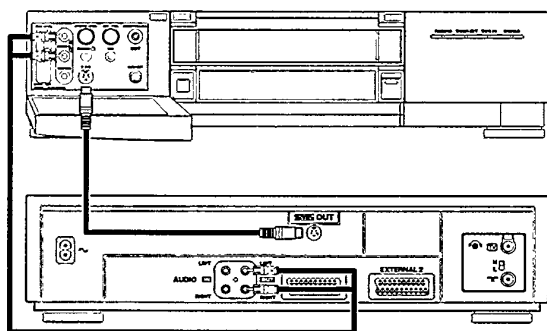


Connecting to another video recorder

Connecting to the Euro-AV-socket

This video recorder has two Euro-AV sockets. A second external unit, such as a second video recorder, a satellite receiver or a CD video player, can be connected to the **EXTERNAL 2** AV. socket.

- 1 Use an AV-Eurocable to connect this recorder (socket **EXTERNAL 2**) and a second unit.



Connecting to the S-VHS-socket

- 1 Connect the socket **S-VHS** on the front of this video recorder using the corresponding output socket of the second unit
- 1 Connect the sound input socket **AUDIO IN** on the front of this video recorder using the corresponding sound output socket of the second unit.



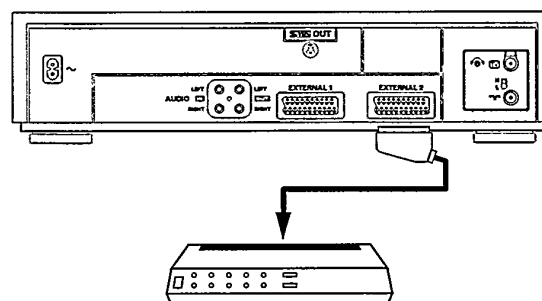
Connecting a decoder

Some TV stations transmit encoded signals which you can only see with a purchased or hired decoder. You can connect such a decoder (descrambler) to this video recorder.

- 1 Use an AV-Eurocable to connect the decoder to the video recorder (socket **EXTERNAL 2**).
You will find a description of how to store TV channels with the decoder in Chapter 4, "Storing TV Channels".

Note:

- * If you have tuned the video recorder and TV set to different TV channels, the decoder can only be used for one of the channels.
- * Select on the video recorder a programme number that was linked to the decoder function when you were storing the TV channels. The video recorder then automatically uses the decoder.
- * When you buy a decoder, ask about the right channel number for the TV station. This will make subsequent installation of the decoder easier.



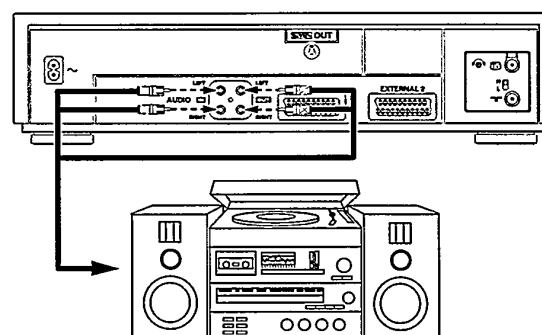
Connecting to HiFi equipment

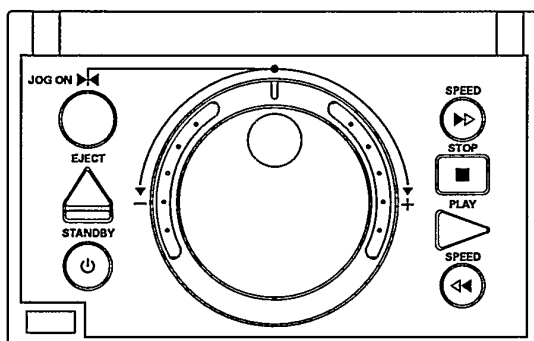
Use an audio cable to connect the sockets **AUDIO IN** to the corresponding output sockets on the audio amplifier.

Connect the sockets **AUDIO OUT** to the corresponding input sockets on the audio amplifier.
Audio cables can be purchased at your local HiFi dealer.

Note:

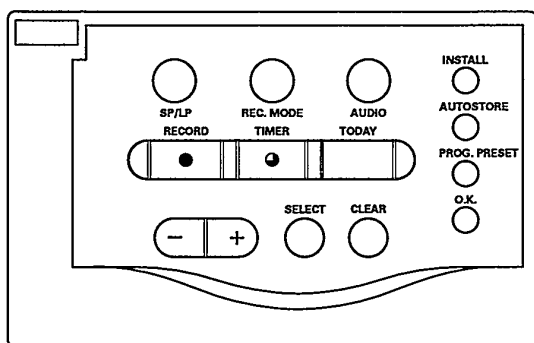
- * If your audio amplifier is suited for surround-sound reproduction, video cassettes containing surround-sound recordings are reproduced in this sound mode.





Emergency interrupt

Your video recorder and its remote control have an emergency interrupt function. You can interrupt any function by pressing button **STANDBY** . Whenever you have any problems while operating the video recorder, you can simply interrupt any function and start again. You can practise using the video recorder without worrying. No matter which buttons you press, you won't damage the video recorder.

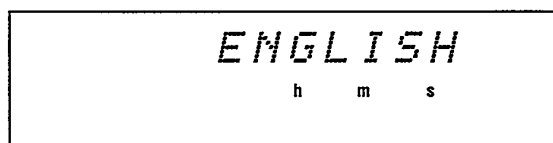


Setting the display language, dimmer, clock and date

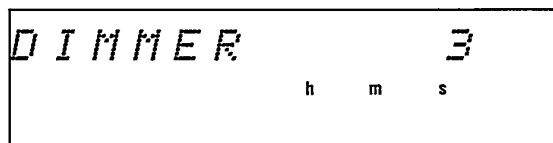
- 1 Switch off the video recorder with button **STANDBY** and press button **INSTALL** . The buttons are located behind a cover on the right side of the front of the video recorder.
- 2 Switch on the TV set and select the programme number for the video recorder.



The test picture will appear on the TV set, and the display on the video recorder will show » TESTPICTURE «, as shown to the right.



- 3 Now press button **O.K.** on the video recorder. Use button **-** or **+** to select the desired display language, for example, » ENGLISH «, and confirm with button **O.K.** .



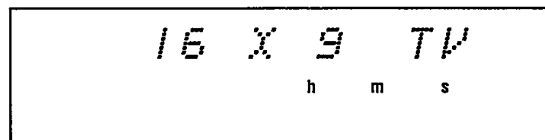
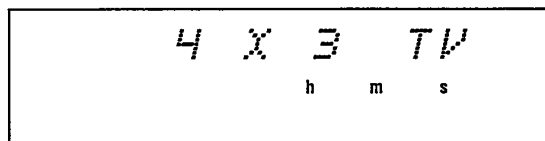
- 4 In this step you can specify the brightness of the video recorder's display. Use button **-** or **+** to select the desired brightness and confirm with button **O.K.** .



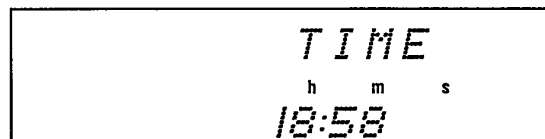
- 5 In this step you can specify the screen format of your TV set.
If you have a TV set with a normal screen format, use button **O.K.** to confirm the format specification » 4:3 «. If you have one of the new wide screen TV sets, use button **SELECT** to switch to the format » 16:9 «. To conclude the selection, press button **O.K.**

Note:

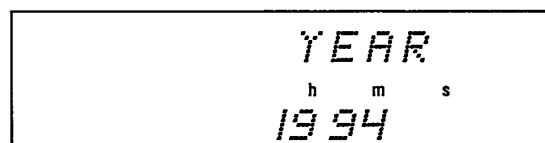
* Refer to the description in Chapter 8 "Particular functions and Extras", section "The new wide screen format 16:9".



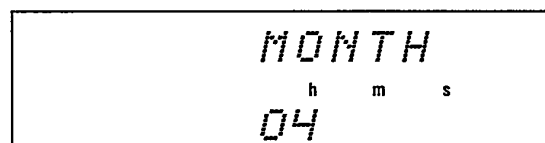
- 6 A survey page for entering the time and date now appears on the screen of your TV set. Now set the current time with the buttons **0-9** on the remote control.



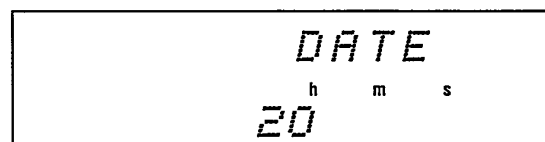
- 7 Press button **O.K.**. Enter the current year.

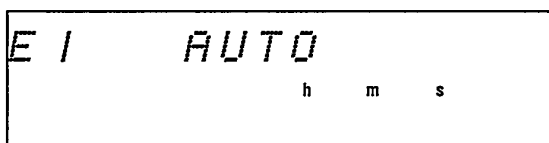
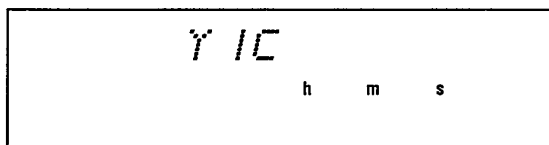
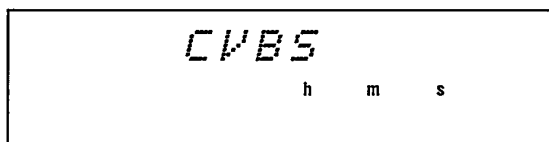


- 8 Press button **O.K.** again. Now set the current month.



- 9 Press button **O.K.** again and set the day's date.





- 10 In this step, select the signal output of the Euro-AV socket **EXTERNAL 1**.

With a TV set whose Euro-AV-socket is not suitable for S-VHS-playback, then confirm entry » CVBS « with the **O.K.** button.

If you own a TV set whose Euro-AV-socket is suitable for S-VHS- playback, enter » Y/C « using the **-** or **+** button (Y/C stands for S-VHS).

Then press button **O.K.** to confirm.

- 11 In this step, select the signal input of the Euro-AV-socket **EXTERNAL 1** and **EXTERNAL 2**.

» AUTO « is set at the factory.

Confirm the setting with button **O.K.**.

The settings have now been completed.

Note:

*Please observe the description in chapter 7 "Additional Recording Functions" in the section "recording from another video recorder", page 76.



3. PLAYING A RECORDED CASSETTE

In Chapter 2 you connected your TV set to the video recorder, thus enabling you to play a cassette. You will find that it is very simple to play back a cassette. If you want to record something immediately, read Chapters 4 and 5.

1 Switch on the TV set.

Many modern TV sets **automatically switch over** to the programme number for the video recorder when a cassette is being played. However, this functions only if you have used an AV-Eurocable to connect the video recorder to your TV set. If your TV set does not have this function, select the channel number on the TV set you have selected for video recorder playback. (» Ext «, » 0 «, or » AV «)

2 Insert the cassette into the cassette slot with the title label facing towards you. The window must be facing upwards.

Press against the centre of the cassette until the cassette is automatically pulled inside. Inserting the cassette automatically switches on the video recorder. Only one side of the VHS cassette can be used for recording or playback.

3 Press the button **PLAY ►**. The display shows » PLAY «.

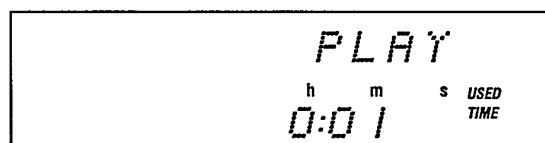
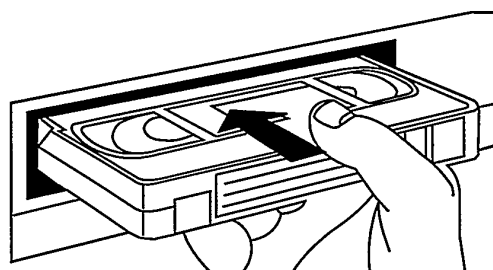
Note:

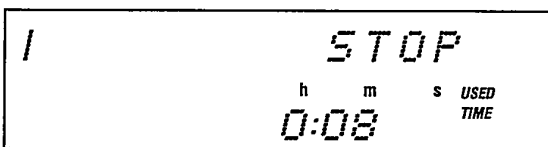
*The video recorder recognizes the correct cassette format (VHS or S-VHS) when playback is activated.

* NTSC playback.

Your video recorder is able to play cassettes recorded in the (non-European) NTSC standard. If the recording is in stereo sound, the video recorder automatically switches to mono - depending on the technical features.

In addition, the video recorder's playing time display goes out.





④ If you wish to interrupt playback, press button **STOP**. » STOP « appears in the display.

⑤ If you wish to remove the cassette, press button **EJECT**.

Note:

* Each time a cassette is loaded or removed, the video recorder automatically cleans the video heads. In this way the best playback quality is maintained.

* When playing a long play recording, the video recorder automatically switches over to this speed. The display will show » LP «. During picture scanning, still picture, slow motion and super slow motion the picture is not in colour.

How do I correct picture interference?

Each time a cassette is loaded, the video recorder **automatically** adjusts to the correct tracking position.

For recordings made on **another video recorder** you may be able to improve the automatic optimum position as follows:

① Press button **PLAY** on the remote control.

② Press button **TRACKING** on the remote control.

③ Press button **PLAY** as soon as the best playback quality is achieved. This setting will remain until you remove the cassette.

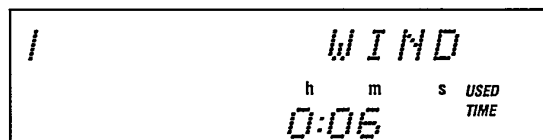
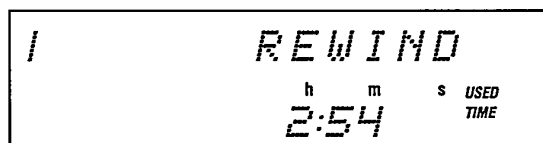


Fast winding and rewinding

- 1 Press button **STOP**.

Press button **<< SPEED** (rewind) or button **SPEED >>** (wind) on the video recorder. The tape will wind or rewind at high speed.

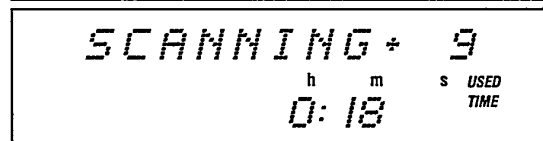
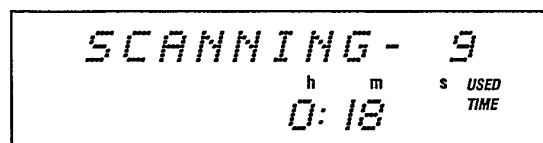
- 2 Press button **STOP** if you want to stop winding.



Picture search (scanning)

With the buttons on the remote control or on the video recorder, you can choose between various speeds for searching forwards or backwards for a picture.

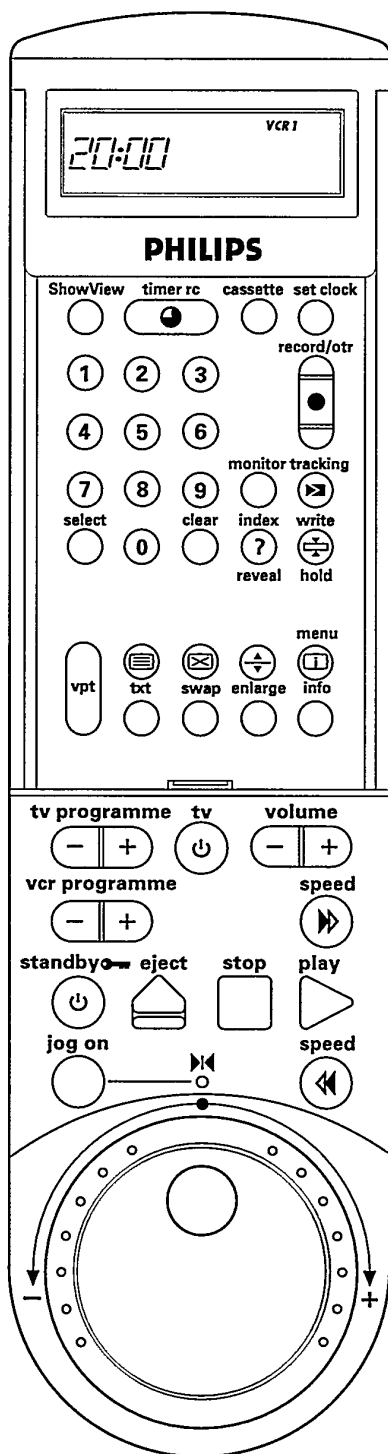
- 1 Press the button **PLAY**.
- 2 Press the button **<< SPEED** or **SPEED >>** on the remote control or the video recorder. Playback speed is 9 times the normal speed forwards, and 9 times the normal speed in reverse.
- 3 Press button **PLAY** to resume normal playback speed.



Note:

* While scanning, picture quality is adversely affected and the sound is muted. This does not indicate faulty operation.





The Jog / Shuttle functions

On the video recorder and remote control you will find a large rotary knob.

Still picture/Single frame selection:

- 1 First activate the rotary knob function with button **JOG ON** . The green light comes on.
The video recorder switches to still picture.
- 2 Turn the inner dial **-0+** to select the preceding or following single frame (JOG function).
- 3 Press button **PLAY** to resume normal playback.

Note:

* If the picture vibrates, press button **TRACKING** until the vibration stops.

If you pass the optimum setting, you can repeat this step with button **TRACKING** again.

You only have to find the optimum setting once as the video recorder stores the setting automatically.

Please note, however, that interference may still occur with hired cassettes of poor quality. This is not caused by your video recorder.



* During scanning the picture quality is affected and the sound is muted.

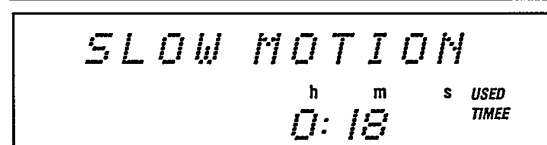
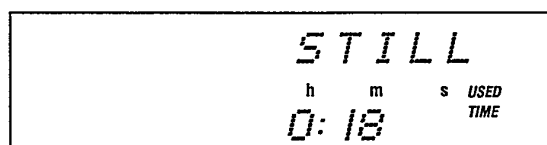
This does not, however, mean that the function is faulty.

* The pushbutton function is automatically shut off if you do not use it for a longer period of time.





Slow motion


- 1 First activate the rotary knob function with button **JOG ON** . The green light comes on.
The video recorder switches to still picture.
- 2 In order to switch to slow motion, continue to turn the outer  ring to the left or right until » SLOW REV « or » SLOW MOTION « appears in the display.





Super slow motion:

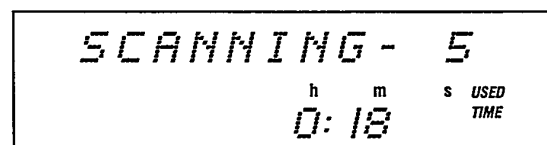
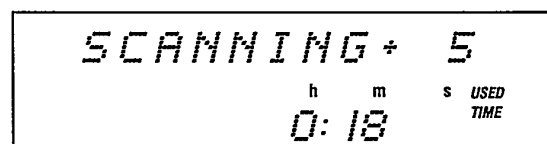
- 1 First activate the rotary knob function by pressing button **JOG ON** . The green light comes on.
The video recorder switches to the still picture.
- 2 By continuously turning the inner knob  to the right, you switch to forward super slow motion.

Picture search:

By turning the outer  ring of the rotary control, you can select picture search in several steps forwards and backwards (SHUTTLE function).

Proceed with the SHUTTLE function as follows:

- 1 Activate the rotary knob function by pressing button **JOG ON** . The green light comes on.
The video recorder switches to the still picture.
- 2 Starting as the central setting » still picture «, turn the outer knob  to the right or left. You can select from the following scanning speeds:
If you turn to the right:
SLOW MOTION (+1/6), PLAY (+1), FAST PLAY (+2),
SCANNING (+5, +7, +9, +11).
If you turn to the left:
SLOW REV (-1/6), REVERSE (-1), FAST REV (-3),
SCANNING (-5, -7, -9, -11).





Tape position.

How do I know where I am on the tape?

It is handy to know for how long a cassette has been playing. When you insert a cassette into the video recorder and select one of the tape transport functions

(for example, » PLAYBACK «), the tape's length is automatically measured. The tape's length (for example, » E 180 «) and the elapsed playing time (for example, » 1:20 USED TIME «) appear in the video recorder's display.

The tape's length is given in the top line of the display. With non-standard hours cassettes (e.g. E195) and with the cassette E300, you must manually select and confirm the cassette's tape length to get the correct cassette playing time indication.

The length specification is found on the front narrow side of the cassette to the left. The actual play time may actually be slightly longer.

- ① Press the button **STOP** on the video recorder
- ② Press the button **CASSETTE** on the remote control.
» CASSETTE E180 «, as in the example above, appears on remote control's display.
- ③ Now use the button **VCR PROGRAMME -** or **+** on the remote control to select the correct tape length. The possible selections appear in the following order: EC30, EC45, E30, E60, E90, E105, E120, E150, E180, E195, E200, E210, E240, E260, E300, and then it starts again with EC30, EC45, E30, etc.
- ④ Press the button **CASSETTE** on the remote control. This confirms the data and simultaneously transfers them to the video recorder. These data then appear in the video recorder's display.



- 5 You can use the button **SELECT** to select from among the following **three display possibilities**:

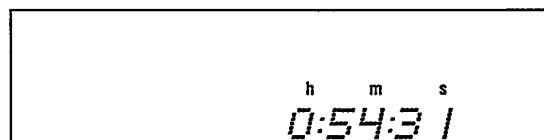
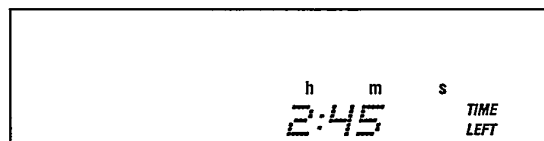
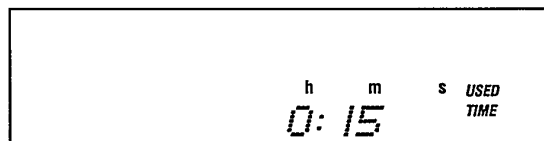
elapsed playing time : display » USED TIME «

remaining playing time : display » TIME LEFT «

Counter : display of tape position

You can read this display while winding and rewinding, while recording, or during playback and stop. If you want to reset the counter indication of the tape position to » 0 «, press button **SELECT** to select the counter display and then press button **CLEAR**.

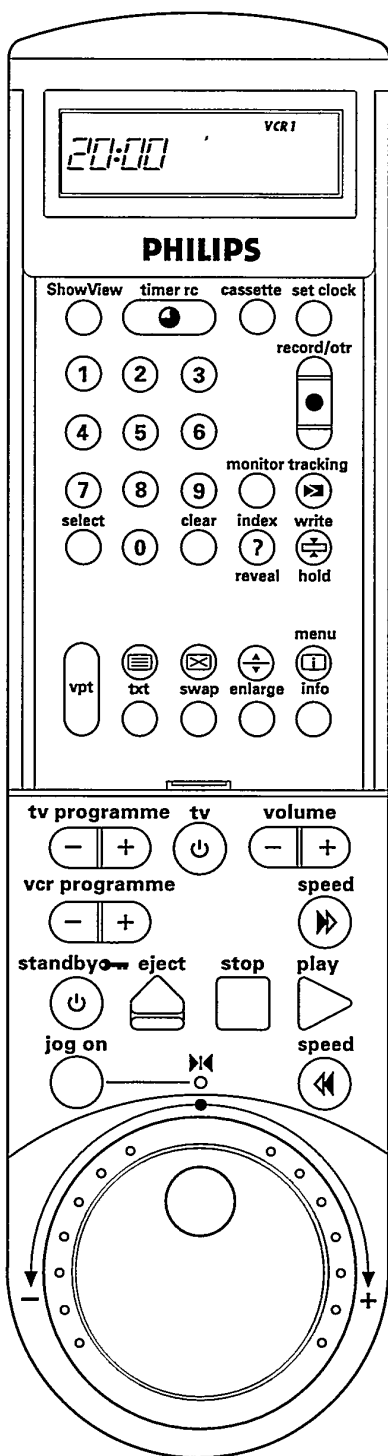
During fast forward winding and rewinding, the counter indication is switched off.



Note:

- * With newly loaded cassettes, the video recorder must first calculate the playing time. The video recorder first shows » —:— «, for example, and waits a few seconds before displaying the correct playing time.
- * The time display works accurately only with PAL/SECAM-VHS/S-VHS cassettes. Time is not displayed for cassettes made for NTSC-VHS/S-VHS equipment.





How do I find a particular position on the tape?

Sometimes you may have recorded two or even more TV programmes on one cassette. In this case, it is worthwhile making a note of the tape position at which the recordings start and end.

So that you do not have to search for a long time, your video recorder offers you two methods for automatic searching: » TAPE POSITION SEARCH « and » VISS «.

Searching for a tape position:

Switch on the video recorder with button **STOP**.

- 1 With button **SELECT**, select the desired display possibility (elapsed playing time or remaining time).
- 2 Press menu button **MENU/INFO** on the remote control.
- 3 Select the line » GO TO « in the menu with the red or blue **GO TO** button. Confirm with the green **GO TO**-button.
- 4 Now use the digit buttons **0-9** to enter the (3-digit) tape position that you wish to find.
- 5 You can now use the coloured buttons **GO TO** to enter the function (Playback, Stop, Recording) to be started from that position. The video recorder winds the tape to the chosen position and then continues automatically with the selected function.

The VHS Index Search System (» VISS «):

The video recorder writes VISS code marks on the tape every time the record button is pressed. Using the button **INDEX** you can search for these VISS code marks on the tape.

You cannot use the VISS function with recordings made on another video recorder that does not have the VISS function.

Intro-scan:

The VISS function provides you with a survey of all the TV programmes recorded on the tape.

Switch on the video recorder with button **STOP**.

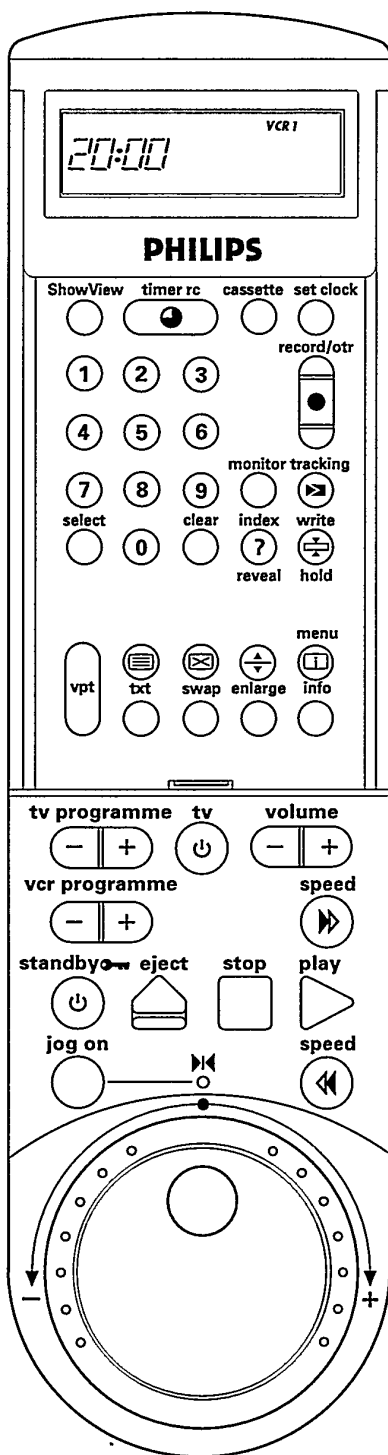
- 1 Press button **INDEX**. » INDEX – « appears in the display.
- 2 Press button **PLAY**. The tape wind on to the next VISS code mark and play for 10 seconds, then wind on to the next VISS code mark and play for another 10 seconds, and so on.



When the end of the tape is reached, the tape is rewound to the beginning.

Note:

* When you press any tape transport button (for example, **PLAY** or **STOP**) while in search mode, the video recorder interrupts the Intro-scan function.



VISS search:

Select this function if you are looking for a particular VISS code mark.

Switch on the video recorder with button **STOP ■**.

- 1 First press button **INDEX** (on the remote control) and then button **VCR PROGRAMME -** to select the previous code mark, or button **VCR PROGRAMME +** to select the following one.

If you want to search for subsequent code marks, press button **VCR PROGRAMME -** or **+** as often as required.

- 2 Select the function that is to follow after the code mark is found (e.g. "playback").

When the code mark is found, the video recorder then begins with the function you selected.

Note:

* When you press any tape transport button (e.g.

PLAY ► or **STOP ■**), the video recorder interrupts the search.

* This function cannot be used for recordings made on other video recorders without these code marks.

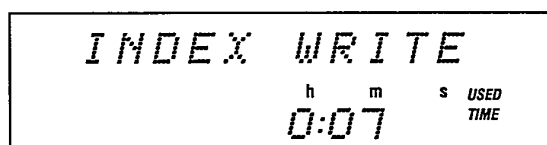


Manually setting and deleting VISS-marks

To find certain positions on the tape quickly, you can set and erase code marks by yourself. This only works with cassettes which are not protected against recording.

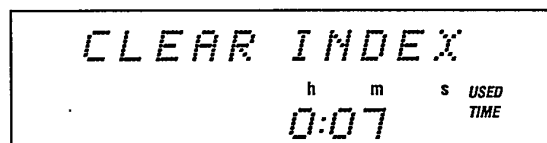
If you want to **set** a code mark, proceed as follows:

- 1 During playback, search for the position on the tape to be marked.
- 2 At the right position, press button **WRITE**. This sets a code mark.



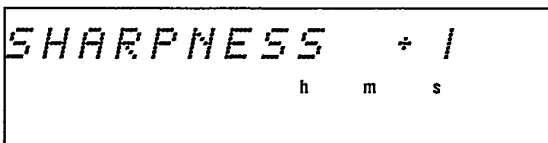
If you want to **erase** a code mark, proceed as follows:

- 1 Press button **INDEX**. Use button **VCR PROGRAMME -** or **+** to select the code mark that you want to erase.
- 2 Then immediately press button **CLEAR**. The video recorder now searches for the code mark. When it is found, the video recorder switches to the » STILL « position. » CLEAR INDEX « flashes in the display.
- 3 Press button **CLEAR** again. The video recorder returns to playback, erases the code mark and remains in the » STOP « position.



Picture sharpness control

You can adjust the picture sharpness in playback in seven steps.



- 1 Press button **PLAY ▶**.
- 2 Press button **VCR PROGRAMME -** or **+**. The current setting is shown in the display: from »3« to »-3« (3 is maximum sharpness). You can change the current setting by pressing button **VCR PROGRAMME -** or **+** again within five seconds. The number »0« indicates medium setting.

Selecting the audio track and audio mix

- 1 Use button **AUDIO** on the video recorder to select the audio track you want to hear.

One of the following will appear:

STEREO	for stereo sound
LEFT CHANNEL	for language I, left
RIGHT CHANNEL	for language II, right
MONO	for mono sound
MIXED	for audio mix (only with playback)

Note:

* If the cassette has not been recorded in stereo sound, the video recorder automatically switches over to mono sound.

* The switch-over to mono sound is automatically reversed when you press button **EJECT** or **STANDBY ⏻**.

* With the »Audio Mix« function, you can play the mono sound of the normal ("linear") audio track together with the sound of the stereo audio track (see recording with »audio dubbing«).

* Stereo playback is only possible if the video recorder is connected to a stereo TV set or a Hi-Fi audio system via a connecting cable (socket »EXTERNAL 1/2« or the phono sockets **AUDIO OUT**).

* It is possible that some TV stations broadcast mono sound transmissions incorrectly in a bilingual mode (indicator I + II come on).

If the sound quality is poor, switch to either »language I« or »language II« by pressing the **AUDIO** button.

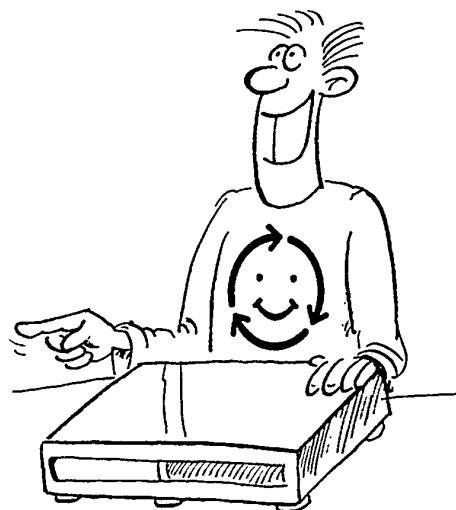


4. STORING TV CHANNELS

In order to be able to record TV programmes, you first have to store each TV channel (in the video recorder). You can store up to 42 TV channels. Your video recorder has its own receiver. Because of this, it can be used independently of the TV set.


If you wish to use the advantages of the ShowView system with TIMER programming, you must allocate a specific "aerial code" for TV-channels with ShowView (ARD, ZDF, ORF, RTL, etc.).

You will find these "aerial code" numbers only in The ShowView numbers can be found in the enclosed ShowView table.



Automatic channel search

Your video recorder searches for all the available TV channels for you. When a TV channel is found, it is automatically stored in memory.

- 1 Switch the TV set on.
Many modern TV sets **automatically switch over** to the channel number of the video recorder as in step 2. However, this only works if the video recorder is connected to the TV set with an AV-Eurocable. Otherwise, select the programme number for the video recorder on the TV set.
- 2 With the video recorder switched off (button **STANDBY** ) , press button **AUTOSTORE** . This starts the automatic channel search. » AUTOSTORE « appears in the display.

Wait until all TV channels have been found. This can take several minutes.

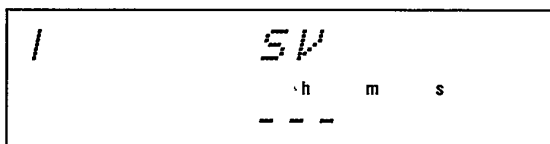
After **all** TV channels have been found, the following indications will appear in the video recorder's display:

- » P 1 « (the TV channel number) and
- » SV --- « (entry of the 'aerial code' for TV channels with ShowView).

AUTOSTORE
01^h m s

1 SV
---^h m s





If you do not want to enter or change the aerial code, go directly to step 5.

- 3 Now enter the respective "aerial code" for the TV channel (P01) as **three digits** with the digit buttons **0-9**.

The ShowView numbers can be found in the enclosed ShowView table.

- 4 You can erase the "aerial code" with the **CLEAR** button.

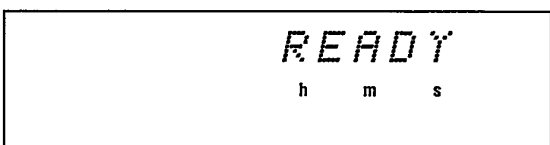
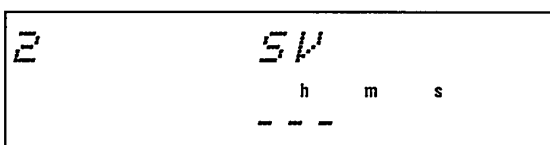
- 5 Store this adjustment with the **O.K.** button.

- 6 The video recorder indicates the next channel number » P 2 «.

Repeat the steps 3 to 5 until you have assigned all TV channels the corresponding "aerial code".

After you have assigned to **all** TV channels the respective "aerial code", the indication » READY « will briefly appear in the display.

Channel assignment is concluded. All TV channels are stored in memory.



Note:

* If you want to change or correct the "aerial code" for the TV channels, please read pages 37, 38 and 39, "Direct channel selection".

Note:

* If you start the channel function again, newly found TV channels are added to the already stored channels.

* If you activate the "Automatic channel search", any programmed TIMER blocks are erased. This does not mean that your video recorder is defective.

* The message 'MEMORY FULL' in the videorecorder display indicates that all the video recorder programme positions are occupied with TV programmes. You can clear TV programmes (see the section 'Sorting TV stations') or add new ones (see the section 'Manual search' which covers directly entering TV channel numbers)

You can clear all the TV programmes. Proceed as follows: 1. Remove the mains plug from the socket. 2. Press the **STANDBY** and **EJECT** buttons on the video recorder and hold them down while reinserting the mains plug. This clears all the TV programmes.



Assigning TV channels

You can allocate any desired programme number to the TV channels stored by the Automatic Channel Search. This is useful, for example, if you want to have the same sequence of channels as that on your TV set.

Switch on the video recorder with button **STOP**.

- 1 Press button **PROG. PRESET** on the video recorder.
» STORE ON P 01 « appears in the display.
- 2 On the video recorder use button **-** or **+** to select the TV channel on the screen which is to be assigned the channel number » P 01 «.

STORE ON
h m s
P-01

Note:

* If a TV channel is encoded and the video recorder is connected to a decoder, press button **SELECT**.
» **DECODER** « appears in the display.

Note:

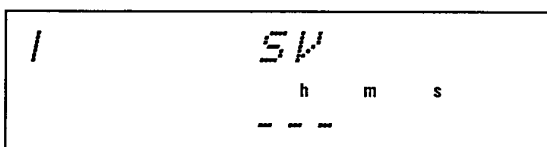
* **Attention:** The following adjustment is only necessary and useful in special cases, for example in case of stripes in the picture for cable TV systems. The picture and sound quality may become worse.
Press button **TRACKING** (remote control).
» FINE TUNING « appears in the display on the video recorder.
Using button **-** or **+** on the video recorder, you can move and adjust within a range from 4 to -4.

1 FINE TUNING
h m s
-2

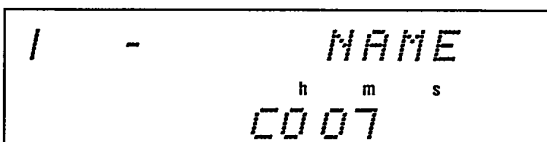
- 3 Store the setting with button **O.K.**.
If you wish to clear a TV channel, e.g., because of poor picture quality, press the **CLEAR** button instead of the **O.K.** button.

If you do not want to enter or change the aerial code, go directly to step 6.

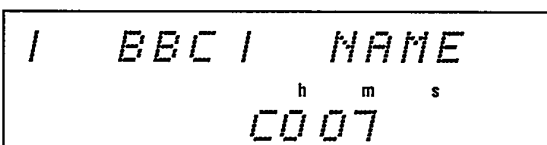




- ④ Enter the "aerial code" for the TV channel as **three digits** with the digit buttons **[0-9]**.
The ShowView numbers can be found in the enclosed ShowView table.

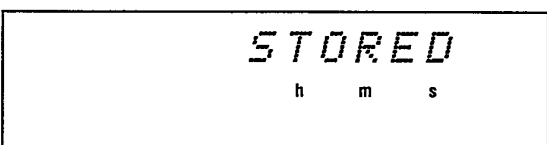


- ⑤ The **[CLEAR]** button allows you to clear the "aerial code" for the TV channel.
- ⑥ Confirm the assignment with button **[O.K.]** on the video recorder.
» NAME « appears in the video recorder's display.
You can now assign the TV channel a name or change the existing name. This name always appears in the display when you select a TV channel.

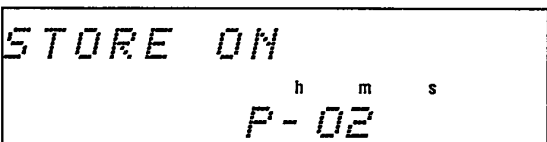


If you do not want to enter or change a name, go directly to step ⑩.

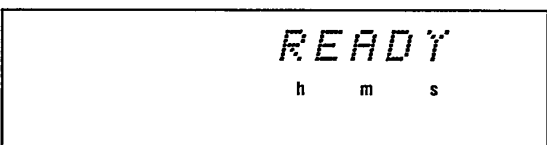
- ⑦ Use button **[−]** or **[+]** to select the desired digit or letter.
- ⑧ With button **[SELECT]**, you select the position at which the character is to be placed (5 characters are possible).
- ⑨ Button **[CLEAR]** can be used for a blank space or for deleting the character in that position.



- ⑩ Store the setting with button **[O.K.]**.
The indication » STORED « will briefly appear in the display.



- ⑪ The video recorder shows the next programme number » P02 «. Repeat the steps ② and ⑩ until all available TV stations are assigned.








- ⑫ When you want to conclude the settings, press the button **[PROG. PRESET]** on the video recorder.





Manual search

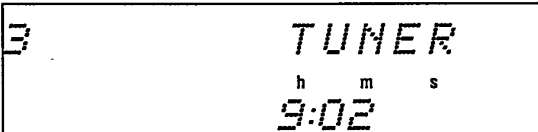
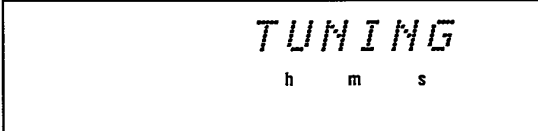
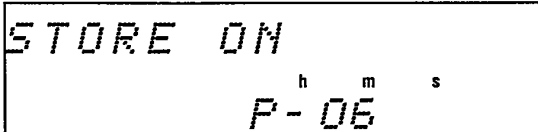
In certain cases the Automatic Channel Search may not be able to find all of the TV channels (e.g. coded TV channels). You can then use this manual method to set the channels.

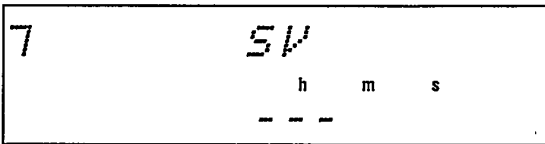
- ❶ Press button **INFO**  on the remote control. With the red or blue button  select the menu line »TUNER MODE«. Press the green button .
- ❷ Keep button **AUTOSTORE** on the video recorder pressed for **longer than five seconds**.
»TUNING« appears in the video recorder's display.
- ❸ **Press and hold down** button  or  until you find the correct TV channel, this can take several minutes.

Note:

* If a TV channel is encoded and the video recorder is connected to a decoder, press button **SELECT**.
»**DECODER**« is shown in the display.

- ❹ Press button **O.K.** (video recorder).
- ❺ With button  or , select the programme number you want to assign to this TV channel.



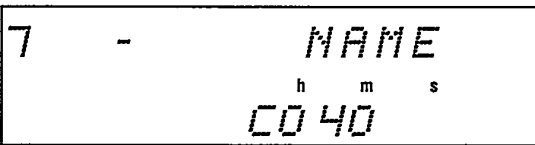
- ⑥ Press button **O.K.** (video recorder).

If you do not want to enter or change the aerial code, go directly to step ⑨.

- ⑦ Enter the "aerial code" for the TV channel as **three digits** with the digit buttons **0-9** of the remote control.

The ShowView numbers can be found in the enclosed ShowView table.

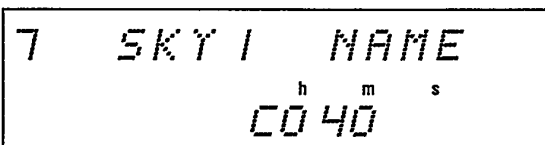
- ⑧ Button **CLEAR** can be used to clear the 'aerial code' for the TV channel.



- ⑨ Press button **O.K.**

» NAME « appears in the video recorder's display.

Now you can give the TV channel a name or change the present name. This TV channel name will appear in the display whenever you choose this TV channel.

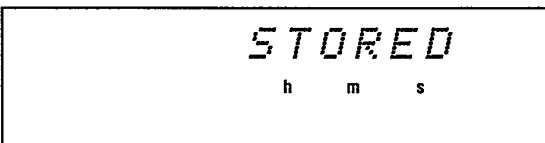


If you do not want to enter or change a name, go directly to step ⑬.

- ⑩ Use button **-** or **+** to select the desired digit or letter.

- ⑪ With button **SELECT**, you select the position at which the character is to be placed (5 characters are possible).

- ⑫ Button **CLEAR** can be used for a blank space or for deleting the character in that position.



- ⑬ Store the entries with the **O.K.** button.

The indication » STORED « appears briefly in the display.

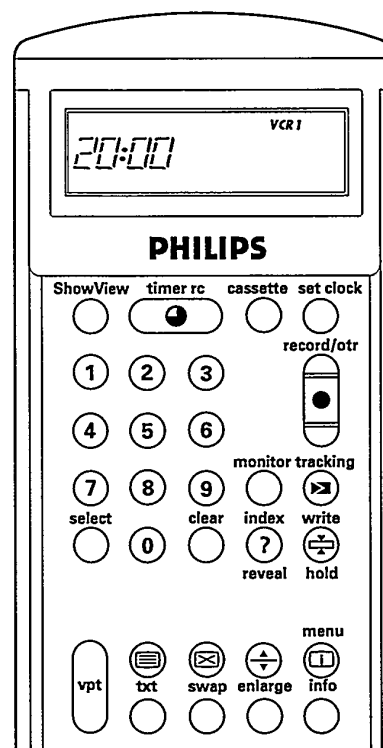
- ⑭ To conclude these entries, press button **STANDBY**.



Direct channel selection

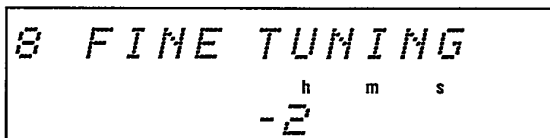
If you know the TV channel numbers in your region, you can directly enter these channel numbers in the video recorder's display.

- 1 Switch on the TV set and select the programme number for the video recorder.
- 2 Switch on the video recorder with button **STOP**.
- 3 Use button **-** or **+** to select the programme number under which you wish to store the TV channel.
- 4 Press button **INFO** on the remote control. With the red or blue button **select** select the menu line » TUNER MODE «. Press the green button **enter**.
- 5 Press button **PROG. PRESET**. A channel number is displayed which flashes (e.g. C 010 in the illustration). You can carry out the following steps not only on the remote control, but also with the operating guide presented on the screen of your TV set and the four coloured buttons **red**, **blue**, **green**, **yellow** on the remote control.
- 6 With button **VCR PROGRAMME -** or **+**, or digit buttons **0-9** on the remote control, select the desired channel number.
If you use the digit buttons **0-9**, always enter the channel number as a three-digit number; e.g. 027 for channel 27.



STORE ON P-08
h m s
C0 10

STORE ON P-08
h m s
C0 27



Note:

* If the TV channel is encoded and the video recorder is connected to a decoder, press button **SELECT** (remote control). » **DECODER** « appears in the display.

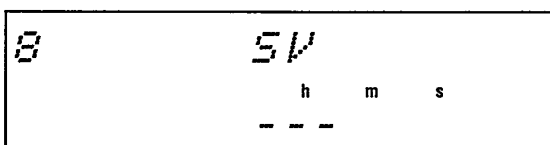
Attention: The following adjustment is only necessary and useful in special cases, for example in case of stripes in the picture for cable TV systems. The picture and sound quality may become worse.

Press button **TRACKING** (remote control).

» FINE TUNING « appears in the display on the recorder. Using button **-** or **+** on the recorder, you can move and adjust within a range from 4 to -4.

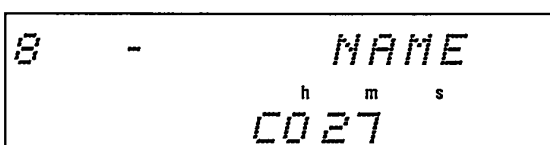
- 7 Store the entries with button **O.K.**.

If you do not want to enter or change the aerial code, go directly to step 10.



- 8 Now enter the correct "aerial code" for this TV channel as **three digits** with the digit buttons **0-9**.
The ShowView numbers can be found in the enclosed ShowView table.


- 9 The **CLEAR** button can be used to clear the "aerial code".

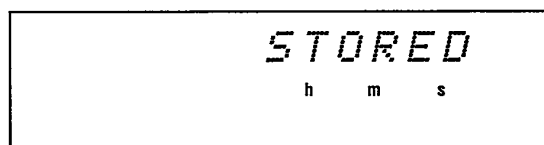
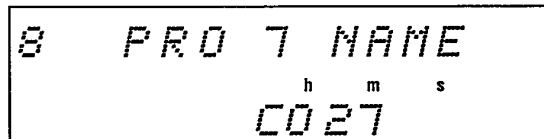


- 10 Confirm the assignment with button **O.K.** on the video recorder.
» NAME « appears in the video recorder's display. You can now assign the TV channel a name or change the existing name. This name always appears in the display when you select a TV channel.

If you do not want to enter or change a name, go directly to step 14.



- 11 Use button **-** or **+** to select the desired digit or letter.
- 12 With button **SELECT**, you select the position at which the character is to be placed (5 characters are possible).
- 13 Button **CLEAR** can be used for a blank space or for deleting the character in that position.
- 14 Store these settings with the **O.K.** button.
The indication » STORED « will briefly appear in the display.
- 15 To conclude these entries, press button **STANDBY** .



Cable TV with special channel numbers

If you possess cable TV equipment with special channel numbers, you must enter the channel numbers already defined for the special channels.

Proceed as described in the section "Direct channel selection".

In step ⑥, enter the channel numbers (e.g. channel » 080 « for special channel » S1 «) according to the following table.

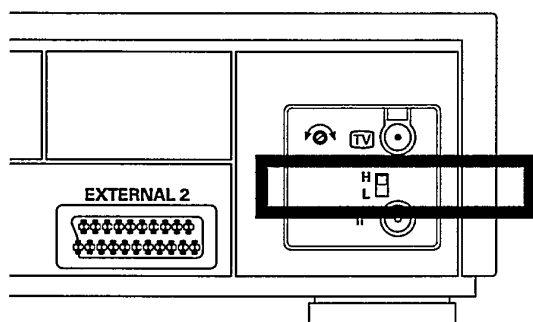
Further information about the special channel numbers of your TV channels is available from your cable TV company.

Special channel/channel number (Hyperband)

S1	080	S11	090	S21	100	S31	110
S2	081	S12	091	S22	101	S32	111
S3	082	S13	092	S23	102	S33	112
S4	083	S14	093	S24	103	S34	113
S5	084	S15	094	S25	104	S35	114
S6	085	S16	095	S26	105	S36	115
S7	086	S17	096	S27	106	S37	116
S8	087	S18	097	S28	107	S38	117
S9	088	S19	098	S29	108	S39	118
S10	089	S20	099	S30	109	S40	119
						S41	120

Attenuator switch – L/H

Normally, you can leave the attenuator switch at the rear of the video recorder at position **L**. Set to position **H** only when interference (poor picture quality) occurs in an area with a strong signal.



5. HOW CAN I RECORD DIRECTLY?

The easiest way of recording is to directly record a TV programme that is currently being broadcast.

And this is how it is done:

- ❶ Insert a cassette. The video recorder switches on automatically. Otherwise, you can also switch it on with the button **STOP ■**.
- ❷ Using button **-** or **+** (video recorder) or the digit buttons **0-9** (remote control) select the number of the TV channel from which you wish to record.
The programme numbers »E1«, »E2«, »E3« and »E4« are reserved for recording from external sources (via AV-Eurosockets »EXTERNAL 1/2«) or for the cinch sockets **VIDEO IN** and **AUDIO IN** or for the sockets **SVHS** and **AUDIO IN** (front of the video recorder). Press the menu button **SP / LP** on the video recorder to select a different recording speed (SP/LP).
- ❸ When you want to start recording, press button **RECORD ●**.

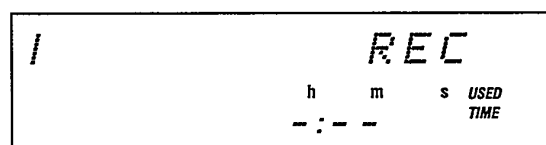
The video recorder's display shows, for example, »PROG 1« and »REC«.

The video recorder then records the TV programme you have selected.

- ❹ You can stop recording by pressing button **STOP ■**.

Can I switch off the TV set while recording?

Yes! Your video recorder has its own receiver, enabling it to record TV programmes. This means that you can use the TV set independently of the video recorder while recording. You can switch it off and on or watch another TV channel without disturbing the recording.



Note:

*If you only want to record VHS on a S-VHS-cassette, press button **MENU/INFO** on the remote-control. Select the » VHS/SVHS « line with the blue or red button and confirm with the green button. Select the line » VHS « with the button and confirm this with the green button.

»VHS« appears in the video recorders display.

* If you do not want to record to the end of the cassette, press button **RECORD** again (remote control). The display shows the **end time of the recording** (also know as the OTR time). Each time you press button **RECORD** you can add another 30 minutes.

If the time remaining on the cassette is not enough for the entered recording time, the video recorder's display shows » NOT ENOUGH SPACE ON THE CASSETTE «.

If you have pressed button **RECORD** too many times, you can return to normal recording by pressing button **CLEAR** (remote control).

As soon as the end time is reached, the video recorder switches off automatically.

* The programme numbers »E1«, »E2«, »E3« and »E4« are reserved for recording from external sources.

* During a recording, would you like to switch to another TV channel and record the new channel? Interrupt the current recording with button **STOP**. Select the new channel number. Start recording with button **RECORD**.

* If you accidentally load a cassette with erase protection for a recording, » PROTECTED « appears in the display. After a few seconds the cassette is automatically ejected.


* If the end of the cassette is reached during recording, it is automatically ejected, and the video recorder automatically switches itself off.

* When you make a new recording on a video cassette, any existing recording is automatically recorded over and deleted.



Long play function

You can reduce the recording speed by half. This makes it possible to record, for example, 8 hours instead of 4 hours with a » E240 « cassette.

- ❶ **Before** recording, select the recording speed » LONGPLAY « with the menu button  on the video recorder.
- ❷ During playback, the video recorder automatically selects the right speed (» STANDARD PLAY « or » LONGPLAY «).

Note:

- * During picture scanning, still picture, slow motion and super slow motion the picture is not in colour.
- * You will get the best picture and sound quality by recording at the standard speed (» STANDARD PLAY «).

NICAM stereo sound reception






Whenever a TV programme is transmitted with NICAM stereo sound, this is indicated in the display by one of the following:



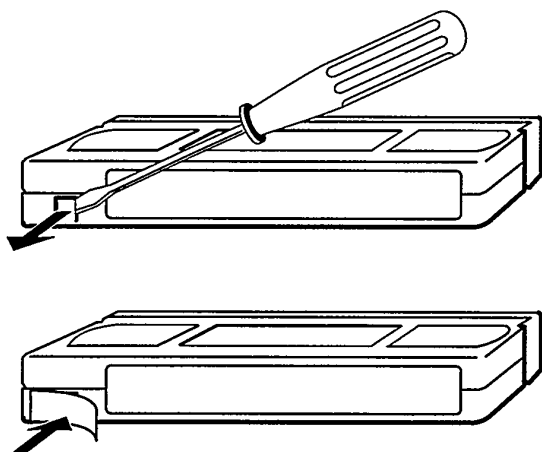
STEREO for NICAM stereo sound
I+II for sound in two languages (bilingual)

Recordings are automatically in NICAM stereo sound or in two languages.

If the NICAM stereo sound reception is accompanied by disturbing noise, you can switch off the stereo sound.

- ❶ Press button  on the remote control.
With the red or blue button  select the menu line "NICAM". Press the green button .
With the red or blue button  select the menu line "NICAM OFF", and confirm with the green button .





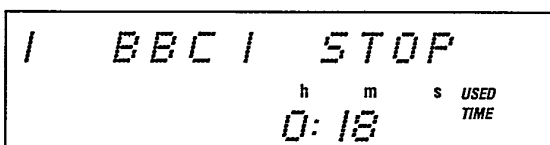
Erase protection

So that you don't accidentally delete an important recording, you can remove the special tab (erase protection) on the front of the cassette with a screwdriver.

Later, if you no longer want the erase protection, you can seal the gap once more with adhesive tape.

Auto-assembling

You can use the auto-assembling function to link up individual recordings without any disturbing picture transitions (flickering).



- 1 Press button **PLAY ►**. Search for the correct position on the tape and then stop playback with button **STOP ■**. » STOP « appears in the display.
- 2 You can now record as usual with button **RECORD ●**.



6. HOW DO I PROGRAMME A RECORDING?

In this chapter you will learn how to programme the video recorder. It switches itself on automatically, records the TV programme you want, and then switches itself off again automatically.

What information is required by the video recorder?

For every programmed recording you must give the video recorder the following information:

- * the date on which the recording is to be made
- * the programme number
- * the start time of the recording
- * the end time of the recording
- * PDC on or off

The video recorder stores all this information, which is required for recording, in what is known as a **TIMER** block. And all this can be stored up to one month in advance.

Your video recorder can store up to 7 of these **TIMER** blocks. Note that the times of the **TIMER** blocks must not overlap. The video recorder first must finish one **TIMER** block before starting the next block.

How is the video recorder programmed?

Your new video recorder offers four different ways to make a recording:

The simple way of programming a recording on the same day is called **"TODAY programming"**.

The ShowView number for the desired TV programme can be found in an appropriate TV programme guide. Enter this number with the remote control handset (indication in the recorder's display).

This possibility is called

"Programming with the ShowView number".

The most convenient way of programming is with the aid of the TV programme pages of Teletext/Videotext, called **"Programming with TXT/VPT"**.

You can enter the data that you want to programme into the remote control and then transmit this data to the video recorder. This third possibility is called

"Programming on the remote control".



What is » Programme Delivery Control « (PDC)?

With PDC, the TV station controls when the video recorder is switched on and off. This means that the video recorder switches itself on and off at the right time even if a TV programme you have programmed begins earlier or finishes later than expected – provided that the TV station is actually transmitting PDC.

Not all TV stations transmit a PDC time code.

Note:

- * The PDC function can **only** be used with the function » Programming with TXT/VPT «.
- * The first few seconds of a programme intended for recording will be missing if the switch-on command transmitted by the TV station is late.
- * You can see if a TV station is transmitting a PDC time code if » PDC « appears in place of » STOP «.
- * Note the PDC details beside the individual TV programmes in your TV guide.
- * If a TV transmission is re-scheduled, » PDC « automatically changes the start time and date information in the TIMER block. This is not a fault in your video recorder.
- * PDC only works as it should if television reception is good. If reception conditions are less than optimum, PDC may not function as it should; this does not indicate that your video recorder is not functioning properly.



TODAY programming on the video recorder

It is very easy to programme a recording for TODAY. You only need to enter the programme number and the start time.

Please note that **only one** TODAY programming is possible per day.

The recording will be made until the end of the loaded cassette.

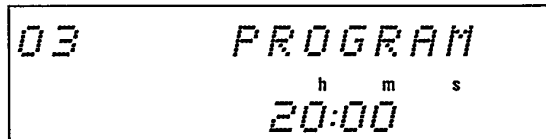
Note:

- * You cannot use the PDC function with TODAY programming.
- * The tape speed (standard play or long play) can be selected before programming with button **SP/LP** on the video recorder.
- * Make sure a cassette without recording protection is inserted.

- 1 Press button **TODAY** on the video recorder.

The programme number currently selected flashes.

- 2 Use button **-** or **+** (video recorder) to select the programme number of the TV channel from which you want to record.



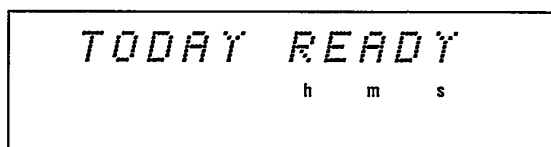
03 PROGRAM
h m s
20:00

- 3 Press button **TODAY** again. The start time flashes in the display.
Use button **-** or **+** (video recorder) to select the start time.



03 START TIME
h m s
20:00

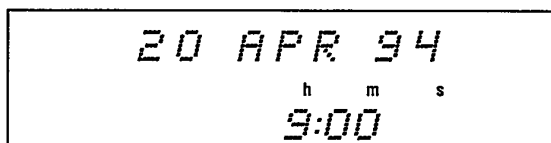





- ④ Have you entered all the data correctly? If so, press button **TODAY**.

The data are recorded in the video recorder.

» TODAY READY « appears in the video recorder's display.



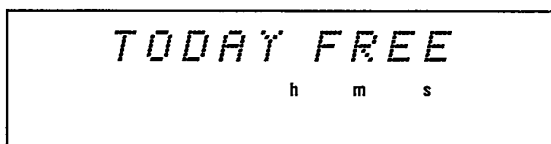
- ⑤ To finish programming, press button **STANDBY** .

TODAY appears in the video recorder's display.

This concludes the programming procedure.

Please also note the "General notes on programming" on page 59.

How do I cancel a programmed TODAY recording?



If you want to cancel a programmed TODAY recording, press button **TODAY** and then button **CLEAR** on the video recorder.

» TODAY FREE « appears in the video recorder's display.



Programming with the ShowView number

This method for TIMER programming is as simple as using a telephone.

You will find the ShowView number (3 to 9 digits) for the **desired TV programme** in an appropriate TV programme guide. Enter this number with the remote control into the video recorder's display.

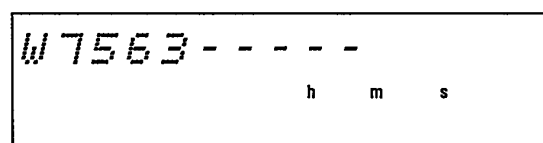
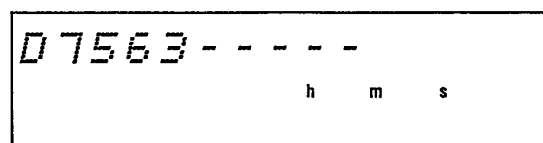
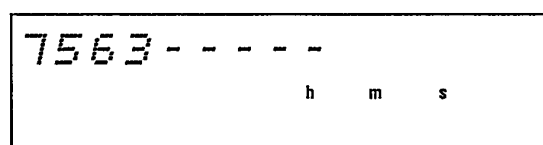
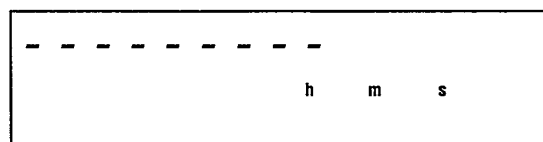
- ❶ Switch the video recorder off with the **STANDBY** button.
- ❷ Check the time and the date on the video recorder's display.
- ❸ Press the **SHOWVIEW** button on the remote control. In the display of the video recorder appear nine horizontal dashes.
- ❹ Enter the actual ShowView code number (7 5 6 3 in the example) with the digit buttons **0-9** of the remote control.
These numbers can be found in an appropriate TV programme guide **next to the start time**.
- ❺ Daily or weekly broadcasts may be programmed by depressing the **SELECT** key either once or twice.
In front of the ShowView code number in the display of the video recorder appears » D « (daily) or » W « (weekly).

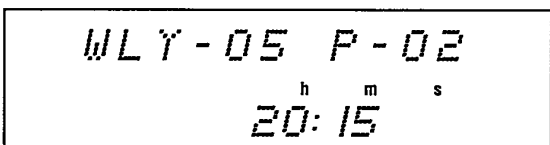
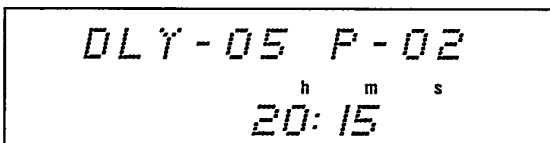
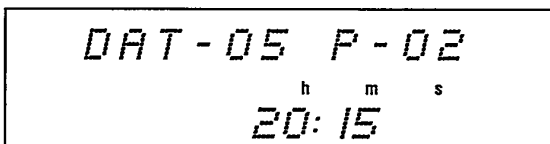
Notes:

* Daily programmes should be broadcast at the same time and the same channel each day of the week for Monday to Friday recordings. For Saturday and Sunday recordings Daily programming is not possible.

Weekly recordings are used for programmes that take place once only per week but at the same time, and channel each week.

* Daily or weekly recordings may be programmed with ShowView code numbers from one week in advance or one week old.





6 Have you entered the data correctly?

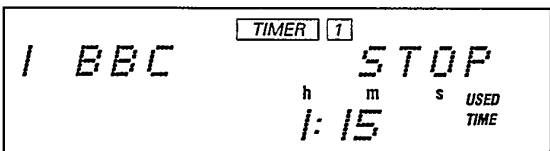
If yes, press the **SHOWVIEW** button on the remote control.

One of the opposite indications will appear in the recorder's display.

An important hint to PDC:

* With ShowView programming, the PDC function is automatically activated.

It is possible to switch the PDC function off and on again with the **SELECT** button.



7 If you wish to alter or clear programming, press the

CLEAR button.

Horizontal dashes will appear again in the display of the video recorder. Repeat the steps **4** to **9** of TIMER programming.

8 Confirm the TIMER data by pressing the **SHOWVIEW**

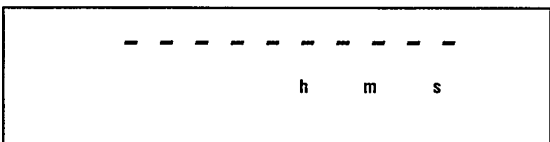
button. » READY « and then the opposite indication (in our example) will appear in the display of the recorder.

9 Conclude ShowView programming by pressing the

STANDBY button.



If the indication » CODE ERROR « appears for approx. 5 seconds in the video recorder's display, the ShowView code number has not correctly been entered, or the code number indicated in the TV programme guide was wrong.

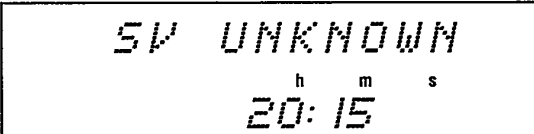


Horizontal dashes will appear again in the video recorder's display.

Repeat the steps **4** to **9** of TIMER programming.

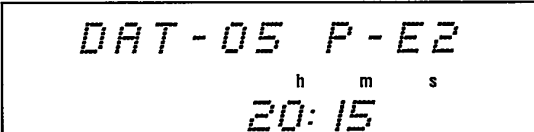


If the indication » SV UNKNOWN « appears for approx. five seconds in the video recorder's display, the recorder could not find the "aerial code" for the selected TV channel (programme).



SV UNKNOWN
20:15
h m s

The indication » P - E2 « (programme position for socket EXTERNAL 2) appears in the video recorder's display. The picture/sound signal of this external programme source (e.g., a satellite receiver) will be recorded if you confirm the data with the **SHOWVIEW** button.



DAT-05 P-E2
20:15
h m s

If you do not wish that, press the **CLEAR** button **twice**.

You must enter the "aerial code" for the TV channels correctly as described in chapter 4, "STORING TV CHANNELS", under "Automatic channel search", "Assigning TV channels", "Manual search", and "Direct channel selection".

Then repeat the steps ❶ to ❹ of TIMER programming.

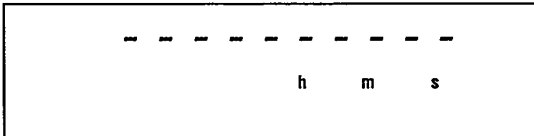
If the indication » DAILY ERROR « appears for approx. 5 seconds in the video recorder's display, you have programmed a daily recording for saturday or sunday. This is not allowed.



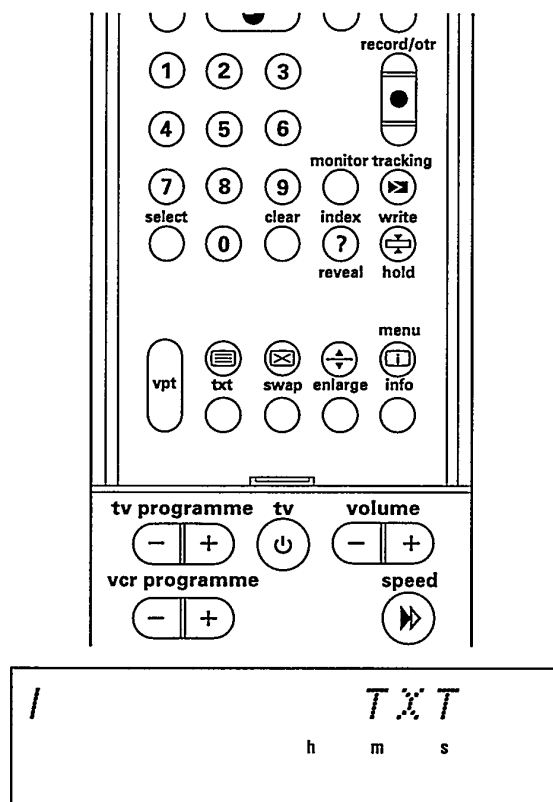
DAILY ERROR
h m s

Horizontal dashes will appear after approx. 5 seconds in the recorder's display.


Repeat the steps ❷ to ❹ of TIMER programming.







- - - - -
h m s








Programming with TXT:VPT

Programming is much easier if you use the coloured TXT buttons , the user guide on the screen and the page memory. Details of the general operation of the TXT decoder can be found in Chapter 8 "Particular functions and extras".

- 1 Switch on the TV set and select the programme number for the video recorder.
- 2 Insert a cassette.
- 3 Now select the programme number of the TV channel from which you want to make a programmed recording. Use the digit buttons  or button  or  on the remote control.
- 4 Switch on the TXT decoder with button  (remote control).
The display of the video recorder shows, for example, » PROG 1 and TXT «

On the screen of your TV set you will see survey page 100 or, if you have already stored favourite TXT pages (see step page 80), the first favourite TXT page.


- 5 You can use the blue or red button  (remote control) to select the other favourite TXT pages or the digit buttons  to select the three-digit number of the page on which this TV channel's programmes are listed.
- 6 Press button  if you want to store this page number for future programming. Confirm the page number with the green button . You return to the TXT page by pressing the blue button .



7 Press button **VPT**.

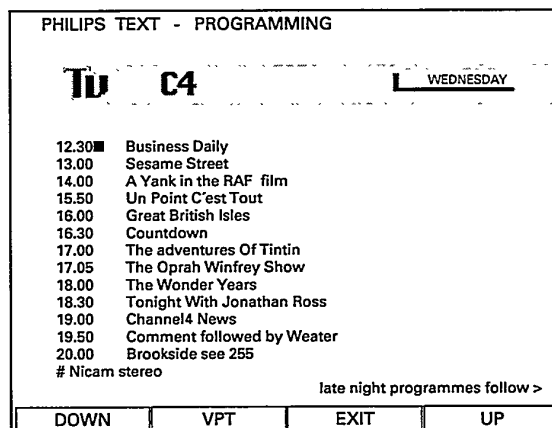
The example shown here to the right appears on the screen.

You can now see a little square position marker, also called the cursor (■), on the survey page.


You can move the cursor up and down with the blue or red button .

Position the cursor at the start time of the TV programme that you want to record.

8 Press button **VPT**.



Note:

* If this TV station transmits a PDC "series code", you can record all episodes of a TV series in one operation. Select and confirm your choice with the four coloured buttons . If you select » THE WHOLE SERIES «, this will be indicated in the survey of all TIMER blocks by the additional information » SERIES «.


You now have two possibilities:

9 Possibility 1

On the TV screen you now see the **contents** of the TIMER block.

Possibility 2

On the TV screen you now see a **survey** of all stored TIMER blocks.

The programme number is on a green background. You can change the programme number with the digit buttons **0-9**. Use the green button  to confirm that the programme number is correct. Thus, you arrive at Possibility 2.






TIMER OVERVIEW		
TIMER	SUB	TITLE
1	150	05 MAY 22:30 P 01
2	150	17 MAY 23:50 P 01
3		
4		
5		
6		
7		
Title on/off		i
To clear timer press		CLEAR
To edit timer press		TIMER
To complete programming		VPT
DOWN	TIMER	UP

Here, an example of what appears on the screen.

- 10 Switch off the video recorder with button **STANDBY**.

Special notes:

* In step 9 there are additional functions for TIMER programming:

Call up the TIMER block with the green -button. Each time you press the green -button, you jump one field further. Use the yellow -button to select the functions and the digit buttons **0-9** to change the data.

* With TV channels that do not transmit normed videotext, the date obtained from the videotext may be incorrect. In this case, correct the date.

Display


DATE
PROGRAMME
STARTING TIME
SUBTITLE PAGE
TITLE RECORDING

Function






Recording repeated daily/weekly
Simulcast, audio
PDC off
TXT page number
Title recording on/off (displays for a few seconds the TXT title, TV channel name, time and date in the recording).

Title recording :

In step 9 of the previous adjustment you can also programme the title of the TV programme and include it in the recording. This title is then briefly shown at the beginning of the recording.

- 1 Select » EDIT TIMER « by pressing the green button .
You can now change (edit) the individual TIMER data.



- 2 Press the green button  several times until you reach the line » TITLE RECORDING «. Use the yellow button  to switch to » TITLE RECORDING ON « if this has not already been done.
- 3 Press the blue button . You are now in the » TITLE EDITING « screen. When programming TXT you see the text line, taken automatically from TXT, which you can change.
- 4 Now enter the desired characters and then press the green button .
- 5 Conclude the programming by pressing button .

Note:

- * If a TV transmission is re-scheduled, » PDC « automatically changes the start time and date information in the TIMER block. This is not a fault in your video recorder.
- * The TIMER switches on the video recorder automatically only if the video recorder is **switched off** at the start time of the programmed recording.
- * If a PDC programmed recording is not properly executed, or if there are other problems, this could be due to incorrect PDC data of the TV station or due to faulty aerial installation.

Programming on the remote control

You can enter and store data for **one** recording in the remote control.

The remote control display shows you all the programming steps. Use the digit buttons **0-9** or button **VCR PROGRAMME -** or **+** to enter the data. With the last press of the button, you transmit the programmed data to the video recorder. The data are stored in the next free **TIMER** block of the video recorder. Make sure that you have not inserted a cassette with erase protection.

Press button **STANDBY** to switch the video recorder off.

- 1 Press button **TIMER RC**. The data most previously entered are shown in the display, and the word »DATE« flashes.

Enter the date on which the recording is to be made.

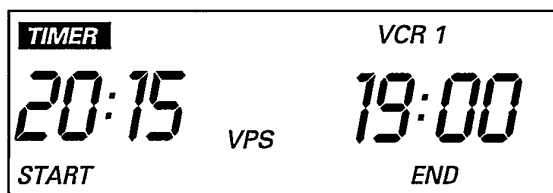
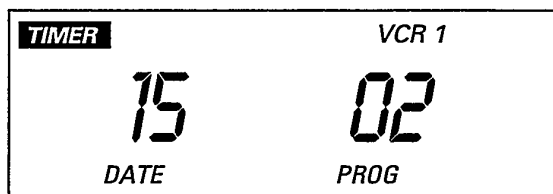
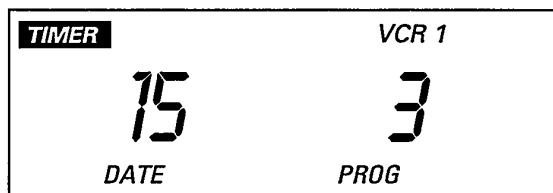
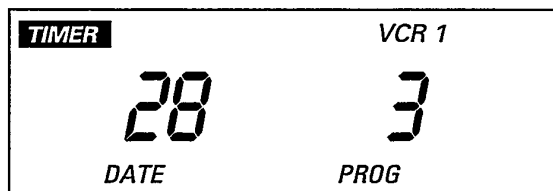
If the display also shows »D« or »W«, press button **SELECT** one or more times until **only** »DATE« is shown.

- 2 Press button **TIMER RC**. The word »PROG« flashes in the display.

Now enter the programme number of the TV channel from which you want to record **as two digits**.

- 3 Press button **TIMER RC** again. The word »START« flashes in the display.

Now enter the start time of the recording **as four digits**.



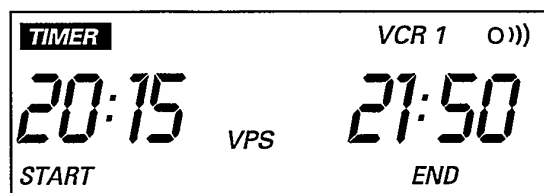
Note on PDC:

* The PDC function cannot be switched on during "Programming on the remote control". If » VPS « (= PDC function) appears in the remote control's display, you should switch off » VPS « with the button **SELECT**.

- ④ Press button **TIMER RC**. The word » END « and the symbol » O)) « appear in the display.

Now enter the end time of the **recording as four digits**.

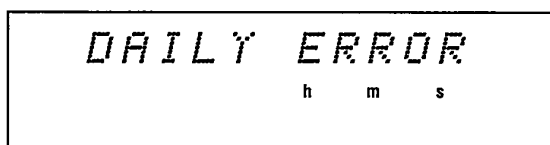
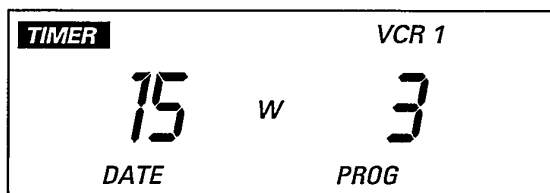
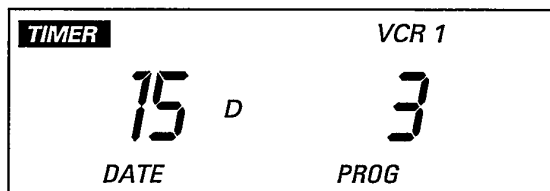
- ⑤ Transmit the data to the video recorder. To do this, point the remote control at the video recorder and press button **TIMER RC**.



The programmed data is now sent to the video recorder. If the video recorder has correctly received the data, the following, as an example, appears in the video recorder's display: **TIMER** **1** and » READY «.

Programming is now complete. The necessary data has been stored in a TIMER block (e.g., » TIMER 1 «).

Programming a regular daily or weekly TV programme



You don't have to repeat the programming procedures each time a TV programme from a series is broadcast. When you enter the recording date, you can programme a daily or weekly repeat at the same time.

Programme the TIMER block as usual. Press button **SELECT** when you are entering the recording date in step **1**.

In addition to » DATE « the following appear in the display:

Press once	= » D « for recording daily
Press twice	= » W « for recording weekly

If the indication » DAILY ERROR « appears for approx. 5 seconds in the video recorder's display, you have programmed a daily recording at the same time for saturday or sunday. This is not possible.




The TIMER data is not stored in memory.
Repeat the steps **1** to **5** of TIMER programming.

Notes:

* **Daily** recording of TV broadcasts at the same time each day can be programmed for **monday through friday**.
Daily programming is not possible for saturday and sunday.




General notes on programming:

- * The TIMER switches on the video recorder automatically only if the video recorder is **switched off** at the start time of the programmed recording.
- * If you do not press a button for one minute during a programming procedure, the remote control automatically interrupts the process. You then have to start the programming procedure from the beginning.
- * The contents of the TIMER block remain stored in the remote control as long as you have transmitted the data to the video recorder. If, after entering the end time, you do not wish to transmit the data to the video recorder, press button **STANDBY** .
- * You cannot manually operate the video recorder while a programmed recording is running.
If you want to interrupt the programmed recording, press button **STANDBY** .
- * If the end of the cassette is reached during a programmed recording, the recorder ejects the cassette, and switches off.
- * If you have forgotten to insert a cassette after programming, the word » EJECT « appears in the video recorder's display.
- * If you insert a cassette with erase protection for the recording, the word » PROTECTED « briefly appears in the video recorder's display after you have finished programming.
The cassette is then ejected.
- * If you have programmed all of the TIMER blocks, » TIMER FULL « appears in the video recorder's display.
- * If the message » TIMER IS ABOUT TO START – PRESS STANDBY « appears, immediately press button **STANDBY** .
- * The programmed recording is always made at the recording speed (SP/LP) that **has just been** selected on the video recorder.







How do I stop a TIMER recording?

You cannot manually operate the video recorder while a programmed recording is running.

If you want to stop a programmed recording, simply press button **STANDBY** .

How can I check or correct a TIMER block?






- ❶ Press the menu button **MENU/INFO**  on the remote control. Confirm the first menu line »TIMER« with the green button .
- ❷ Use the red or blue button  to select the TIMER block you want to check or correct.
- ❸ Now press the green button  several times. The recording date, the programme number, the start time, the end time, the subpage number and the title function appear one after another on the video recorder.
All data can be changed with button **VCR PROGRAMME -** or **+**, the button **SELECT** or with the digit buttons **0-9**.

Notes:

* **Daily** recording of TV broadcasts at the same time each day can be programmed for **monday through friday**.
Daily programming is not possible for saturday and sunday.

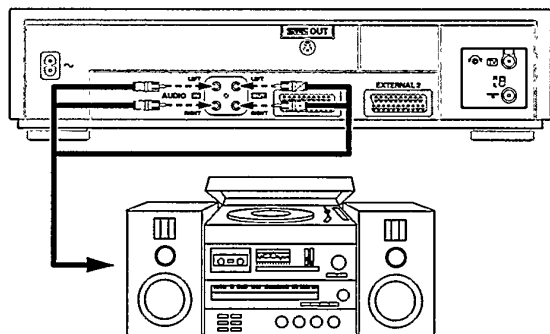


How can I cancel a TIMER block?

- ❶ Press button **MENU/INFO**  on the remote control.
Confirm the first menu line » TIMER « with the green button .
- ❷ Use the red or blue button  on the remote control to select the TIMER block you want to cancel.
- ❸ Cancel the TIMER block with button **CLEAR**  .
The display of the video recoder will show, for example, » 1 CLEARED «.
- ❹ Press the button **VPT**  to conclude this function.



7. ADDITIONAL RECORDING FUNCTIONS



Simulcast recording

The stereo sound of some TV programmes is broadcast simultaneously on FM radio. In order to get the best stereo sound quality you can record the picture from the TV channel and simultaneously record the stereo sound from the radio.


To do this, connect the radio to the socket **AUDIO IN** (back of the recorder).



- 1 Tune your radio and the video recorder to the desired programme.
- 2 Press button **REC. MODE** on the video recorder several times until » SIMULCAST « appears in the display.
- 3 Use the **L REC. LEVEL R** controllers to adjust the sound until the indicator » 0 dB « comes on during the loudest passages.
- 4 Press button **RECORD**.
The video recorder begins recording the sound from the radio and TV programme.
- 5 Finish the recording by pressing button **STOP**.
- 6 Switch off the video recorder with button **STANDBY**.

Note:

* Simulcast recording without a video signal is not possible.

* For a programmed Simulcast recording, follow the steps described in **“Programming with TXT:VPT”**. IN step 9, select the function » Simulcast « with the yellow button . Sound level is controlled automatically.




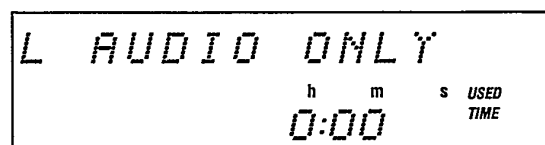
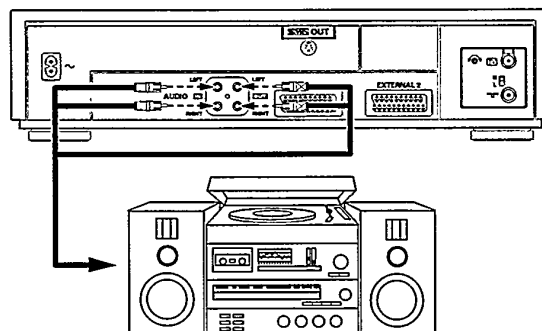
Recording audio only

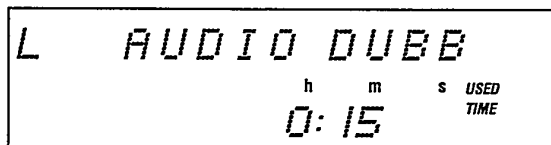
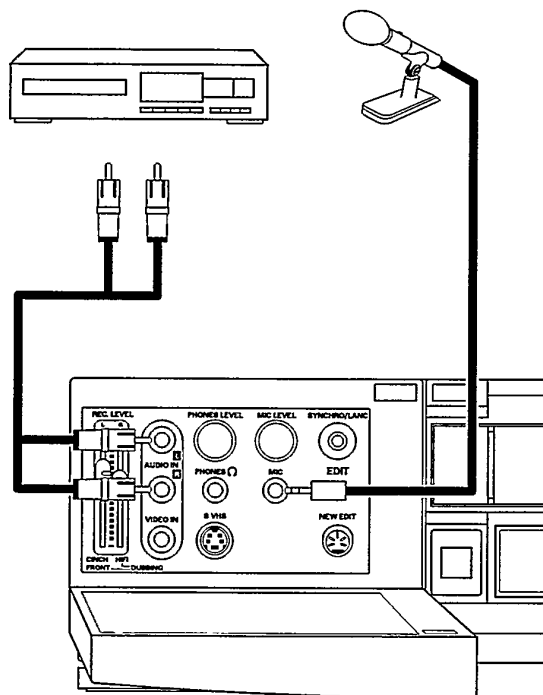
This video recorder allows you to make "audio only" recordings. To do this, connect the video recorder to an audio system (socket **AUDIO IN** back of the video recorder).

- 1 Insert a cassette.
- 2 Press button **REC. MODE** on the recorder several times until » AUDIO ONLY « appears in the display.
- 3 Use the **L REC. LEVEL R** controllers to adjust the sound until the indicator until the » 0 dB « comes on during the loudest passages.
- 4 Press button **RECORD**. The video recorder begins recording the sound input. Any previous recording on this tape is erased.
- 5 Stop recording with button **STOP**.
- 6 Switch off the video recorder with button **STANDBY**.

Note:

* For a programmed "Audio only" recording, follow the steps described in "**Programming with TXT:VPT**". In step 9 select the function "Audio only" with the yellow button . Sound level is controlled automatically.





Audio dubbing with integrated audio mixer function

This function enables you to replace (dub) the mono sound track of a previously made recording with another sound recording (for example, with a microphone in socket **MIC** on the front of the video recorder).


Only the normal (linear) mono sound track is changed. The stereo sound track and the video image remain unchanged.

- 1 Press button **PLAY** to locate the position at which the audio dubbing is to start.
Press button **STOP**. The video recorder is now in the »STOP« position.
- 2 Press button **REC. MODE** on the video recorder several times until »AUDIO DUBB« appears in the display.
- 3 Use the **MIC LEVEL** controller to adjust the sound of the microphone until the indicator »0 dB« comes on during the loudest passages.
If desired, you can also connect another sound source (for example, a CD player) to the cinch socket **L AUDIO IN R** (on the front of the video recorder).
With the **left** controller **L REC. LEVEL**, you can mix the sound input from the external sound source to the sound on the microphone.
If this is not desired, simply move the **left** controller **L REC. LEVEL** all the way down (-).



Note:

* To reproduce the dubbed sound, repeatedly press the **AUDIO** button until 'MONO' appears in the display of the video recorder (see page 30, "Selecting the audio track").



- ④ Press button **RECORD** . After step ④, you can add the hifi original sound to the inserted video cassette. Using the **right** **REC. LEVEL R** controller, adjust the original hifi sound until » 0 dB « comes on during the loudest passages. If this is not desired, simply move the **right** **REC. LEVEL R** controller all the way down (–).

The video recorder starts to record the sound input from the audio source, replacing the mono (linear) sound track. The recording can be heard by connecting headphones to one of the **PHONES** sockets. Headphone volume can be adjusted with the **PHONES LEVEL** controller.

- ⑤ You can finish the recording with the button **STOP** .
- ⑥ Switch off the video recorder with button **STANDBY** .

Note:

*If you connect an audio mixer to the video recorder, you can mix the original hifi sound of the video cassette you have loaded with the sound from several externally connected sources.

Remove the original hifi sound lead from the **AUDIO OUT** cinch socket (back of the video recorder) and connect it to the audio mixer.

Connect the audio mixer to the **L AUDIO IN R** cinch socket (front of the video recorder).

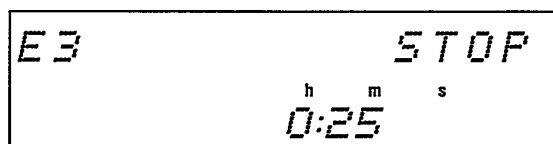
Now slide the **right** **REC. LEVEL R** controller down (–). Using the **left** **L REC. LEVEL** controller, adjust the sound until » 0 dB « comes on during the loudest passages.

*If you want to hear the sound of this audio dubbing, you must select mono with the **AUDIO** button.

Insert-Function

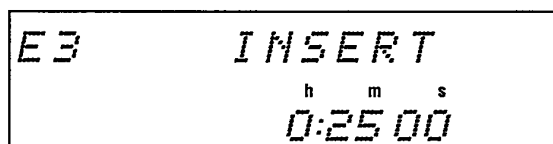
You can insert a recording scene later into an already existing track without a disturbing transition using this function.

- 1 Search for the place where you would like to make the insert with button **PLAY ►**.



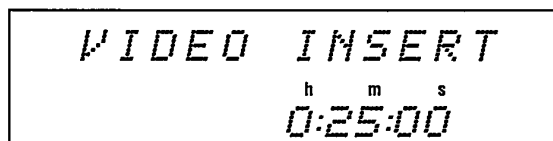
- 2 Press button **STOP ■**.

- 3 Select the programme number from which you would like to record with the button **VCR PROGRAMME -** or **+** or with the number button **0-9** (remote control).

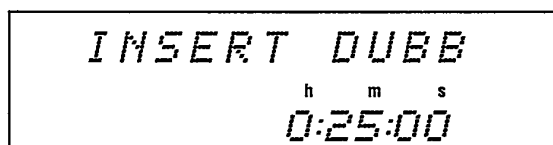


- 4 Press button **REC. MODE** on the video recorder several times until » INSERT « appears on the display.

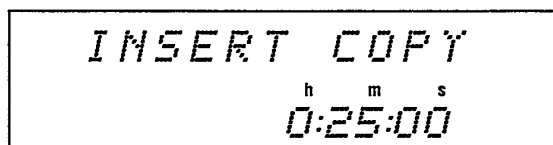
- 5 Select the desired insert-function with button **SELECT**.



» VIDEO INSERT «: The picture and the HiFi-sound (helical track) are re-recorded, the monotone (longitudinal track) remains.






» INSERT DUBB «: The picture, the HiFi sound (helical track) and monotone (longitudinal track) are re-recorded.



» INSERT COPY «: The picture is re-recorded. The monotone (longitudinal track) remains and is transferred onto the HiFi-sound track (helical track).

- 6 Only when the picture-/sound signal uses the sockets **VIDEO IN** and **AUDIO IN** or **S-VHS** and **AUDIO IN** (video recorder front) into the video recorder:
Use the **L REC. LEVEL R** slider controls to adjust the sound until the indication » 0 dB « lights up during loadest passages.



-
- 7 Press button **RECORD** .
 - 8 Stop recording with button **STOP** .
 - 9 Switch the video recorder off using button **STANDBY** .

Note:

* If you want to stop insert-recording automatically, search for the desired end of the cassette according to step 5. Select playback position display » counter « and set this to » 0 « with the button **CLEAR** on the video recorder. Return to the beginning of the recording with the forward/reverse picture search and start recording. The video recorder completes recording automatically after reaching » 0 « on the counter.

Synchro-Edit Insert

You can synchronously insert a new recording scene later into an already existing recording without a disturbing transition using this function.

Depending on type and equipment of the camcorder being used, certain connecting cables are necessary.

Both units are started at the same time with help of a synchronized impulse and the adjustable pre-roll time.

Two different operational methods are possible.

Note:

* To connect your VR 948 to a camcorder with LANC EDIT, only use the edit cable with the 2,5mm ø adapter jack supplied. You can also use this cable for a second Philips video recorder with a synchro edit input. Using this cable for connection to any other video recorders, camcorders, editing units, etc., can, under certain circumstances, damage the units.

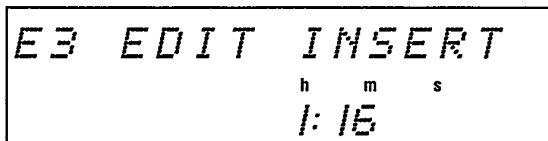
Connect both units when switched off.

Only use the edit cable with the 2,5 mm ø adapter jack to control a camcorder with LANC edit.

Please observe your camcorder instruction manual.

Picture and sound signals enter the video recorder via the sockets **VIDEO IN** and **AUDIO IN** or **S-VHS** and **AUDIO IN** (video recorder, front).

Select programme source » E3 « (**VIDEO IN**)
or » E4 « (**S-VHS**).



E3 EDIT INSERT
h m s
1: 16

- 1 Switch the camcorder to pause so that the video recorder recognizes the connected camcorder type
Continue to press button **REC.MODE** on the video recorder until » EDIT INSERT « appears in the display.



- 2 Press button **CLEAR**. The pre-roll time preferred for this camcorder type is automatically offered.
Change the pre-roll time with the **VCR PROGRAMME -** or **+** button. For example, the following can appear in the display: » START 1:16 « (seconds).

- 3 Confirm your setting with **STOP ■**.

- 4 Select the desired insert-function with button **SELECT**.

» EDIT INS VIDEO «: The picture and the HiFi-sound (helical track) are re-recorded, the monotone (linear track) remains.

» EDIT INS DUBB «: The picture, the HiFi-sound (helical track) and the monotone (linear track) are re-recorded.

» EDIT INS COPY «: The picture is re-recorded. The monotone (longitudinal track) remains and is transferred onto the HiFi-soundtrack (helical track).

- 5 Confirm the setting with button **STOP ■**.
- 6 Search for the correct playback position on the video recorder for recording and press button **STOP ■** again.
- 7 Search for the correct playback position on the video recorder.
- 8 Using the slide switches **L REC. LEVEL R**, you can drive the sound to full capacity which is indicated when the marked position » 0 dB « lights up.
- 9 Press button PAUSE- or STILL-on the camcorder.

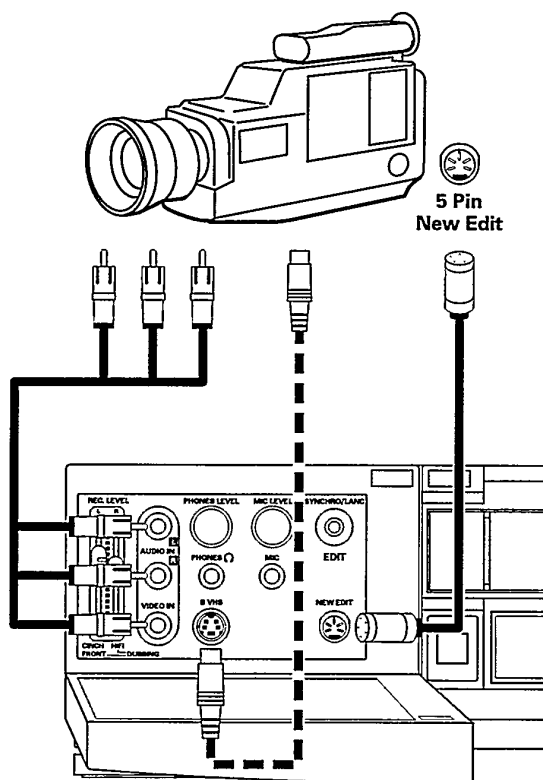
E3 EDIT STOP
h m s
0:25:00

EDIT INS DUBB
h m s
0:00:28

EDIT INS VIDEO
h m s
0:00:28

EDIT INS COPY
h m s
0:00:28

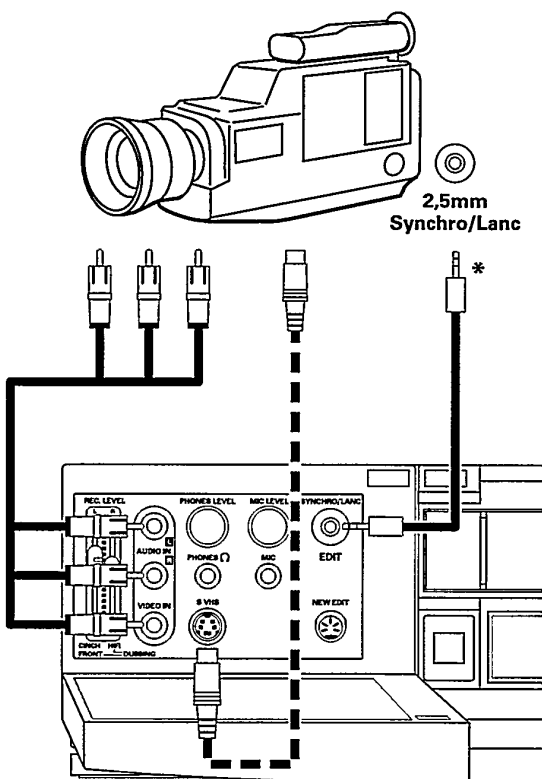




- 10 In accordance with the following cable system, there are two methods to begin recording

Method 1

- 11 Activate recording with button **RECORD** on the video recorder. The cassette in the camcorder is rewound briefly after which the camcorder switches to »PLAYBACK«. Once the **beginning scene** has been reached, the »RECORD« function on the video recorder is started synchronously.
- 12 At the **end scene**, interrupt synchronous recording using button **STOP** on the video recorder. The camcorder switches to playback pause.
- 13 Repeat points 5 to 12 for continued synchronous recording.
- 14 Stop synchronous recording using button **STANDBY** on the video recorder.



Note:

* If the beginning of the scene is missing, the pre-roll time is too long. Decrease the time in accordance with step 2 (for example. » 1:05 seconds «). If recording starts before the recording scene, the pre-roll time is too long. In this case, increase the time to, for example, » 1:43 seconds «.

Note:

* If you want to automatically end the insert recording, search for the desired end of the cassette as described in step 5. Select the counter and set it to » 0 « with the button **CLEAR** on the video recorder. Using picture search, go back to the beginning of the recording and start the recording. The video recorder automatically stops when it reaches » 0 «.

* see note on page 68



Method 2

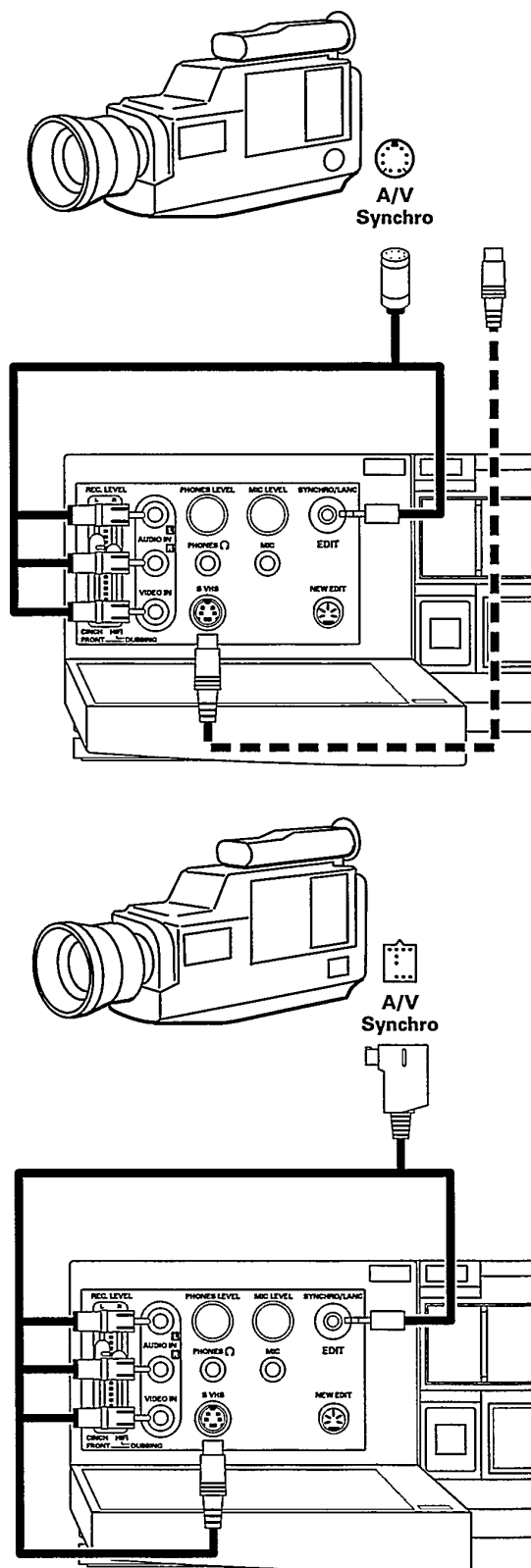
- 11 Activate the editing process, for example with EDIT or QUICK REVIEW, on the camcorder. The cassette in the camcorder is briefly rewound, and the camcorder then switches to »PLAYBACK«. When the beginning of the scene is reached, the function »RECORD« on the video recorder is simultaneously started.
- 12 At the end of the scene, interrupt recording with the PAUSE or STILL button on the camcorder.
- 13 For additional recordings, repeat steps 5 through 12.
- 14 Stop synchronous recording with **STANDBY** on the video recorder.

Note:

* If the beginning of the scene is missing, the pre-roll time is too long. Decrease the time in accordance with step 2 (for example. » 1:05 seconds «). If recording starts before the recording scene, the pre-roll time is too long. In this case, increase the time to, for example, » 1:43 seconds «.

Note:

* If you want to automatically end the insert recording, search for the desired end of the cassette as described in step 5. Select the counter and set it to » 0 « with the button **CLEAR** on the video recorder. Using picture search, go back to the beginning of the recording and start the recording. The video recorder automatically stops when it reaches » 0 «.



Synchro-Edit

Synchronous editing is possible between an appropriately equipped camcorder and you video recorder.

Depending on the type of camcorder you have, certain cable are required.

Both devices are started simultaneously by means of a synchronous pulse and a selectable pre-roll time.

Two different operational methods are possible.

Note:

* To connect your VR 948 to a camcorder with LANC EDIT, only use the edit cable with the 2,5mm ø adapter jack supplied. You can also use this cable for a second Philips video recorder with a synchro edit input. Using this cable for connection to any other video recorders, camcorders, editing units, etc., can, under certain circumstances, damage the units.

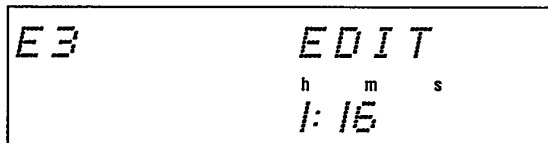
Connect both units; they must both be switched off.

Only use the edit cable with the 2,5 mm ø adapter jack to control a camcorder with LANC edit.

Note also the operating instructions of your camcorder.

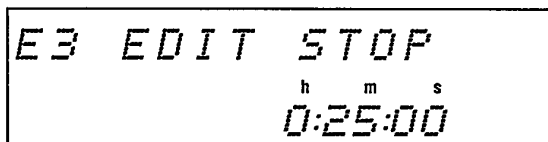
Picture and sound signals enter the video recorder via the sockets **VIDEO IN** and **AUDIO IN** or **S-VHS** and **AUDIO IN** (on the front of the video recorder).

Select the programme number » E3 « (**VIDEO IN**) or » E4 « (**S-VHS**).



❶ Switch the camcorder to pause so that the video recorder recognizes the connected camcorder type. Continue to press button **REC. MODE** on the video recorder until » EDIT « appears in the display.

❷ Press button **CLEAR**. The pre-roll time preferred for this camcorder type is automatically offered. Change the pre-roll time with the **VCR PROGRAMME -** or **+** button. For example, the following can appear in the display: » START 1:16 « (seconds).



❸ Confirm your setting with **STOP ■**.



- 4 On your video recorder, search for the correct tape position for recording. Press **STOP**.
- 5 Search for the correct tape position on your camcorder.
- 6 Use the **L REC. LEVEL R** controllers to adjust the sound until the indicator » 0 dB « comes on during the loudest passages.
- 7 Press PAUSE or STILL on the camcorder.
- 8 Depending on the cable connections shown at the right, there are two ways to start recording.

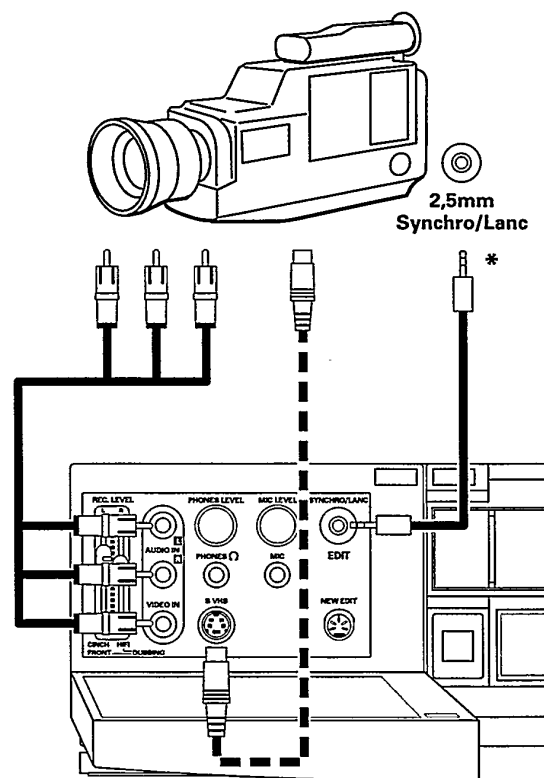
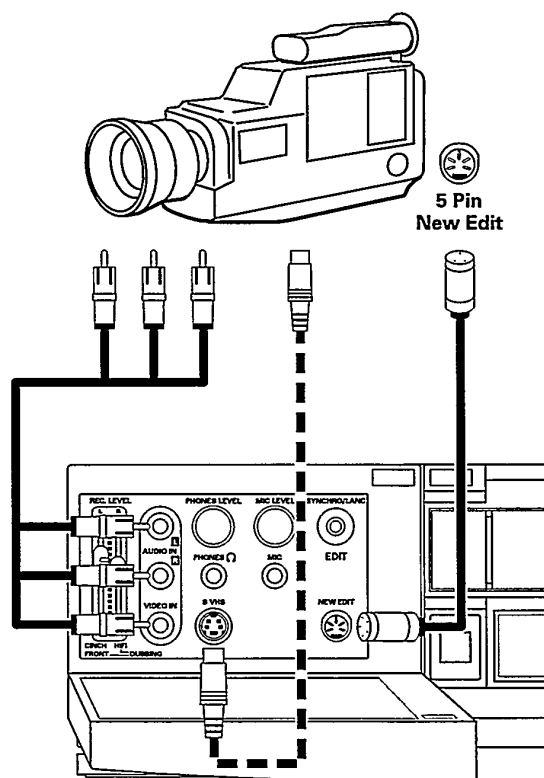
Method 1

- 9 Activate the recording procedure with **RECORD** on the video recorder. The cassette in the camcorder is briefly rewound; the camcorder then switches to » PLAYBACK «. When the **beginning of the scene** is reached, the function » RECORD « on the video recorder is started simultaneously.
- 10 Press **STOP** at the end of the scene to interrupt the synchronous recording on the video recorder.
- 11 For additional synchronous recording capabilities, see points 4 through 10.
- 12 End synchronous recording by pressing **STANDBY** on the video recorder.

Note:

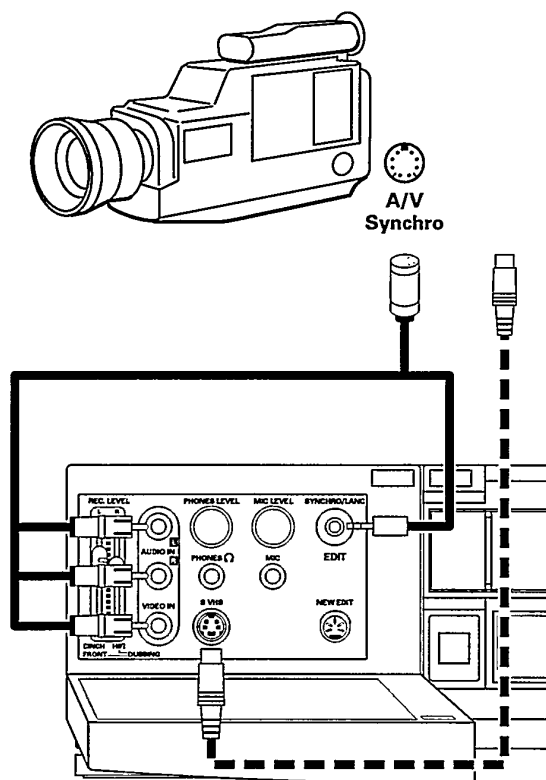
* If the beginning of the scene is missing, the pre-roll time is too long. Set the time to a shorter time in accordance with step 2 (for example. » 1:05 seconds «). If recording starts before the recording scene, the pre-roll time is too long. In this case, increase the time to, for example, » 1:43 seconds «.

Instead of using a camcorder for »synchro-edit«, you can also use two Philips video recorders for doing this. In this case, use your VR 948 as playback recorder.



* see note on page 72



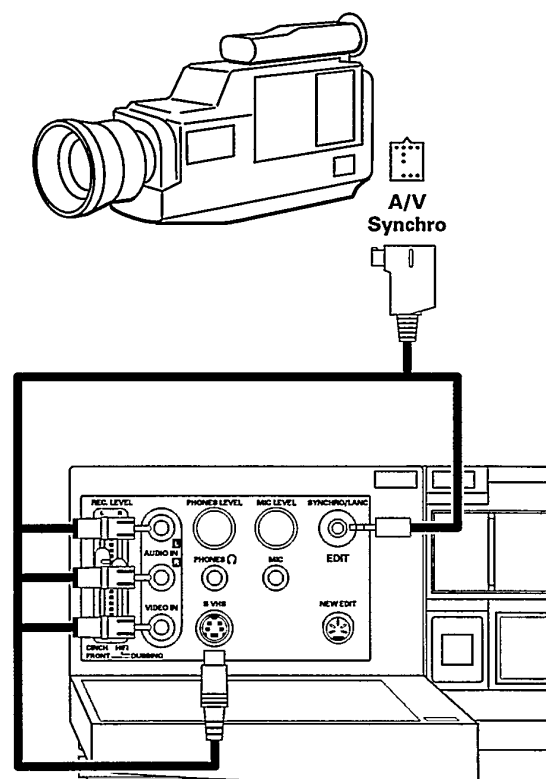


Method 2

- 9 Activate the editing process, for example with EDIT or QUICK REVIEW, on the camcorder. The cassette in the camcorder is briefly rewound, and the camcorder then switches to »PLAYBACK«. When the beginning of the scene is reached, the function »RECORD« on the video recorder is simultaneously started.
- 10 At the end of the scene, interrupt recording with the PAUSE or STILL button on the camcorder.
- 11 For additional recordings, repeat steps 4 through 10.
- 12 Stop synchronous recording with **STANDBY** on the video recorder.

Note:



* If the beginning of the scene is missing, the pre-roll time is too long. Set the time to a shorter time in accordance with step 2 (for example. » 1:05 seconds «). If recording starts before the recording scene, the pre-roll time is too long. In this case, increase the time to, for example, » 1:43 seconds «.



Externally controlled recording

Do you have another device, such as a satellite receiver, equipped with an integrated clock which can be used for controlling other devices? If so, you can control a recording from such an external device via the socket **EXTERNAL 2**.

Insert a cassette which is not protected against recording into the video recorder.

- ❶ With the video recorder switched off (button **STANDBY** ) , press button **MONITOR** (remote control) for five seconds. » RECORD PREP « appears in the video recorder's display. The video recorder is now ready to record.
- ❷ The start and end of the recording is remote-controlled via socket **EXTERNAL 2**.
- ❸ Press button **STANDBY**  to interrupt this function.

RECORD PREP
h m s

EXT2 RECORD
h m s
0:48

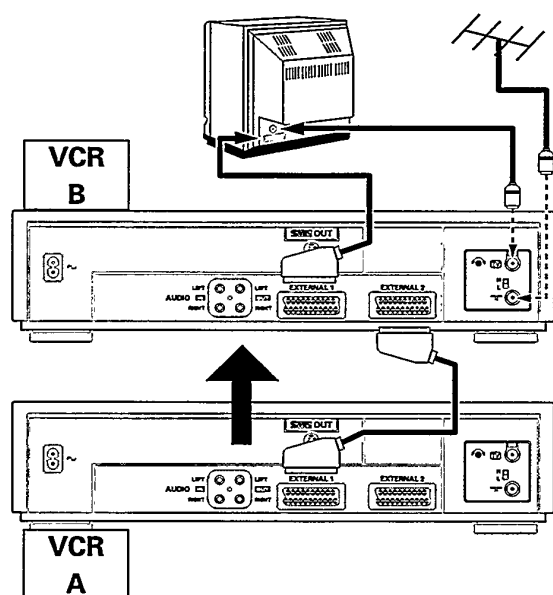
Notes:

- * The function "Externally controlled recording" is **not executed** if a TIMER block is programmed for today too.
- * It is **not** possible to use a decoder with this function.

Recording from another video recorder

Note:

* If your TV set does not have an AV-Eurosocket and you would like to see the picture during the recording process, you must adjust the TV set to the video recorder if you have not already done so. Refer to Chapter 8, "Particular functions and extras on your video recorder", section "Playback via the aerial cable".



Your video recorder allows you to make recordings from an external recording source, which means you can transfer onto this video recorder from a second video recorder. This feature requires an AV-Eurocable (scart-cable).

- 1 Connect this video recorder to the second video recorder.

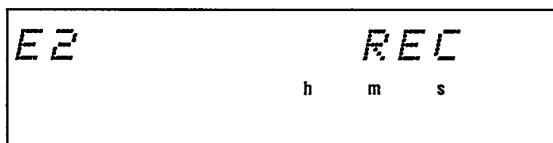
To do this, insert the AV-Eurocable on each video recorder into the respective AV-Eurosocket (on this video recorder this is socket **EXTERNAL 2**).




Note:

* In the following description, this video recorder is used for recording and is referred to as VCR B. The other video recorder is used for playback and is referred to as VCR A.

- 2 Insert a recorded cassette into VCR A and a blank cassette into VCR B.


- 3 Now select the programme number » E2 « on VCR B. » E2 « is next to programme number » P1 « (P1-E1-E2). Use button **-** or **+** on the video recorder.



- 4 To begin recording, press the recording button **RECORD**  on VCR B and the playback button **PLAY**  on VCR A.
- 5 When you are ready to stop transferring, press button **STOP**  on both video recorders.

Note:

* In exceptional cases (non-standard CVBS or S-VHS signal for example) the colour may not be correct when playing back a recording.
Should this be the case, implement the following settings:

- 1 Switch off the video recorder with button **STANDBY**  and press button **INSTALL**. The buttons are located behind or on the front of the unit to the right.
- 2 Press button **O.K.** on the video recorder until » E1 AUTO « appears on the display.
- 3 Select the desired Euro-AV socket » E1 « or » E2 « with button **SELECT**.
- 4 If you have connected a normal VHS video recorder as a playback unit (VCR A), enter » CVBS « using either button **-** or **+**.
If an S-VHS video recorder has been connected, enter » Y/C « using button **-** or **+**.
- 5 Confirm this setting with button **O.K.**.

E1 AUTO
h m s

E1 CVBS
h m s

E1 Y/C
h m s

8. PARTICULAR FUNCTIONS AND EXTRAS ON YOUR VIDEO RECORDER





TXT decoder.

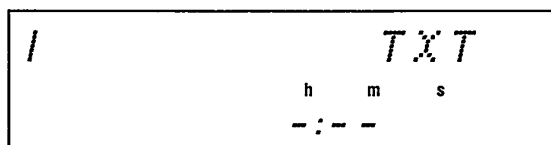
Reading TXT with the video recorder

In addition to the functions already described, your video recorder has other particular functions and extras designed to make operating it as convenient as possible. You will find out more about these features in the following chapters. This video recorder allows you to receive the TXT programmes broadcast in your own country (Videotext/Teletext/Top/Flof/Fasttext/Supertext, etc.), even if your TV set does not have TXT. In addition to the wide variety of features provided by TXT, this function offers you two further advantages:

- You can use the video recorder to insert and record TXT subtitles.
- When you are programming recordings, you can take advantage of the convenient TXT programme survey pages.

How do I read TXT?

- 1 Switch on your TV and select the programme number you have stored for video playback.
- 2 Switch on the video recorder with button **STOP** .
- 3 Now select on the video recorder the TV channel whose TXT pages you want to read. To do this, press button **VCR PROGRAMME -** or **+** or use the digit buttons **0-9** on the remote control.
- 4 Use button **TXT**  on the remote control to switch on the TXT decoder. The video recorder is now receiving the TXT of the TV channel you selected. The video recorder's display will show, for example, » PROG 1 TXT «.





The TXT survey page, usually the index, appears on the TV screen. The TXT information line is shown at the top of the TV screen.




- 5 Now you can call up the TXT pages that you want to read. Use the digit buttons **0-9** to enter the number of the desired TXT page. You must always enter this number as three digits.

The page number you enter appears in the information line at the top of the TV screen. After a few seconds, the page appears. If you want to read another page, simply enter the new page number.

You can use the four coloured TXT buttons  on the remote control to select directly the TXT page you want to read. The corresponding coloured notes appear at the bottom of the TV screen.

If you want a survey of the entire range of information TXT offers, press button **MENU/INFO** . The TXT survey defined for that particular TV channel then appears.

- 6 Switch off the TXT decoder with button **TXT** .






- 7 Switch off the video recorder with button **STANDBY** .

An important note:





* When you switch on TXT, most of the other functions of your video recorder are blocked.

How can I store my favourite TXT pages?

For each TV channel you can store up to four TXT page numbers, e.g., the news headlines, or the daily TV programme survey. If you store the programme survey page here, programming with TXT will be much easier for you.

- 1 Switch on TXT as usual with button  and select the page you want to have as a "favourite" TXT page.
- 2 As soon as this page appears, press button .
A list of your favourite TXT pages appears on the TV screen.
If you want to select, delete, or leave a page, press the corresponding coloured button .
- 3 To conclude, press the green button . The page numbers are now stored.
- 4 Return to the TXT mode by pressing the blue button .

How can I call up my favourite TXT pages?

- 1 Switch on the TXT with button . The first favourite page appears on the screen.
- 2 Use the blue or red button  to select other favourite TXT pages, or enter the number of a favourite page directly with the digit buttons .
- 3 Press button  to return to the normal video recorder mode.





The automatic correction of the TXT clock by the video recorder

Store a TV channel that transmits TXT on programme number » P 1 «. From now on, every time you call up the TXT the video recorder takes the exact time from TXT.



Note:

* The date is not automatically corrected.



How can I record TXT subtitles?

- 1 Switch on TXT with button **TXT**  (on the remote control) and select the page number of the subtitles page.
- 2 Then start the recording as usual with button **RECORD** .

Note:

* You can only record the subtitles from the TXT information. If you select a normal TXT page and press button **RECORD** , the TXT information is deleted. While you are recording you cannot use TXT. First you must interrupt the recording with button **STOP** .

Switching off TXT temporarily

You can use button **SWAP**  on the remote control to switch off TXT temporarily. When you press **SWAP**  again, TXT reappears without you having to call it up.

Enlarging character size

You can use button **ENLARGE ⇄** to double the character size on the TXT screen. This means that you can read the information on the screen from further away.

- 1 Press button **ENLARGE ⇄** – the upper half of the page appears enlarged on the TV screen.
- 2 Press button **ENLARGE ⇄** again to switch to the enlarged lower half of the page.
- 3 Press button **ENLARGE ⇄** once more the view the whole TXT page with normal character height.

Calling up "concealed" information



Some TXT pages (for example, the quiz page), contain questions with concealed answers or information.

- 1 Press button **REVEAL ?** to reveal the concealed information.
- 2 Press button **REVEAL ?** again to make the information disappear again.



TXT turns pages automatically

If a TXT page takes up more space than is available on the TV screen, this page is divided into sub-pages, which are automatically turned after a preset time.


- ❶ If you wish to take your time reading, you can stop the pages from being turned by pressing button **HOLD**  on the remote control.
- ❷ This sub-page remains on the TV screen until you press button **HOLD**  again. The automatic page turning function then resumes.


Additional general notes:

* There are no page numbers beginning with » 0 « or » 9 «. If you accidentally select » 0 « or » 9 « as the first digit, this error is indicated by » P?-- « on the information line.

* If you accidentally press a wrong digit button when selecting a page number, you first must complete the combination of three digits before you can re-enter the correct page number again.

* If the number of a chosen page remains green, this means that the TV channel is not transmitting this page at the moment.

* If you wish to change from one TXT channel to another, you first must switch off the TXT decoder with button **TXT** .

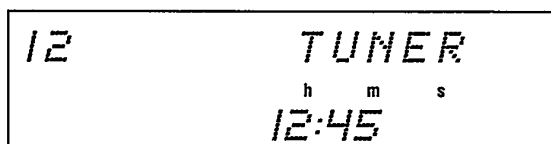
Then, select the number of the other TV channel whose TXT pages you want to see and switch on the decoder again with button **TXT** .

Tune mode. Your video recorder as an extension of your TV set

You can also use your video recorder as a TV receiver (tuner). This is handy if your TV set does not have remote control or if it has fewer channel buttons than the number of channels it could actually receive.

Proceed as follows:

- ❶ Switch on the TV set. Select the programme number reserved for video playback.
- ❷ Press button **INFO** on the remote control. With the red or blue button **◀▶** select the menu line »TUNER MODE«. Press the green button **OK**.
- ❸ Use button **-** or **+** (video recorder) or the digit buttons **0-9** (remote control) to select the TV channel that you want to see on the TV screen.
- ❹ Switch of the video recorder with button **STANDBY** if you no longer want to watch TV.



Note:

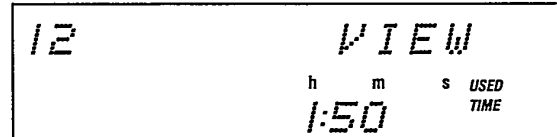
* Programmed recordings are not possible when your video recorder is in the tuner mode. Switch it off with button **STANDBY**.



View mode

You can make use of extra functions if a second unit is connected to socket **EXTERNAL 2**. This unit could be another video recorder, a decoder, a satellite receiver, or a video CD player.

If your second unit transmits a control signal during playback, for example, your video recorder recognises this (when it is switched on) and automatically switches over to » View mode «. You can switch the » View mode « on and off with button **MONITOR**.



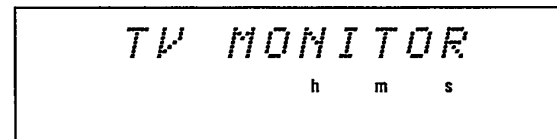
When the video recorder is switched off, the AV-Euroconnection from the second unit to the TV set is still maintained.

Note:

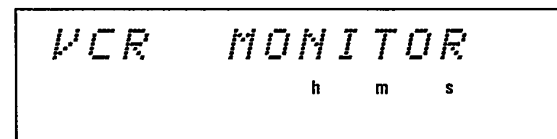
* If you have selected the channel number » E2 «, the video recorder cannot switch to » View mode «. This is also true for channel numbers with activated decoder function.

The TV monitor function

Press button **MONITOR** to switch the TV set to channel number » AV « (= **A**udio/**V**ideo input). This makes the picture from the video recorder visible on the TV screen. The video recorder must be switched on (button **STOP** ■).



"VCR MONITOR" briefly appears in the display. The monitor function is switched off again by pressing **MONITOR**.



Note:

* The monitor function responds only if the TV set is also equipped for this function and you use an AV-Euro-cable for the connection to the TV set.

Automatic switch-off

If the video recorder is not operated for more than eight minutes during one of the following functions, the function is switched off.

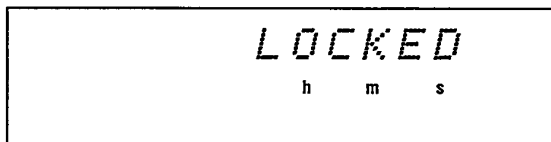
This protects your cassette and prevents unnecessary power consumption.


If the video recorder is:

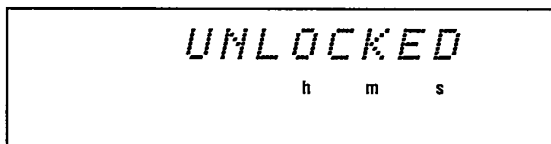
in STOP	it switches off
in EJECT	it switches off
in STILL PICTURE	it switches to PLAYBACK
in PICTURE SEARCH	it switches to PLAYBACK


Child lock

This function prevents the unauthorized operation of your video recorder. All button functions are blocked. If a button is pressed, » LOCKED « appears briefly in the display. But don't worry: Programmed recordings are made despite the child lock and cannot be interrupted.



- 1 Press button  on the remote control **for more than five seconds** until » LOCKED « appears in the display. The child lock is now activated. Keep the remote control in a safe place.

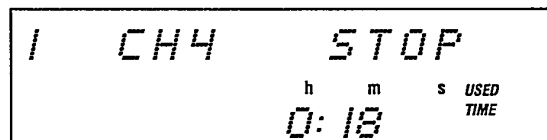


- 2 When you want to switch off the child lock, press button  again **for more than five seconds**. After five seconds, » UNLOCKED « appears in the display.



Display of TV station name

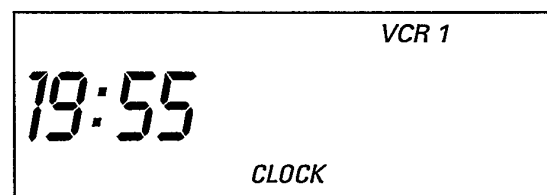
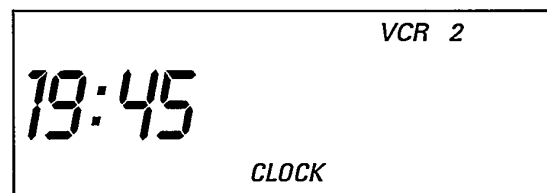
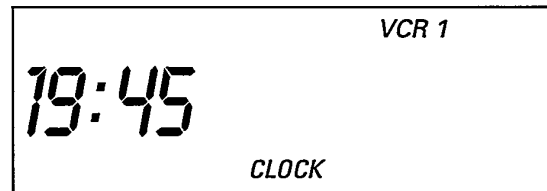
For TV stations which broadcast PDC signals, the name of the station is visible for the operating modes Eject, Stop, Record, Assigning TV stations, and Tuner.



VCR 1/VCR 2 switch-over

This is an important function if you have two video recorders which accept the same remote control code. You can quite easily change the remote control code for this video recorder and this remote control in order to prevent the unintentional operation of the wrong video recorder.

- 1 Switch off the video recorder with button **STANDBY** .
Now press button **INSTALL** on the video recorder.
» TESTPICTURE « appears in the video recorder's display.
- 2 Press button **SET CLOCK** on the remote control. The time, as well as » CLOCK « and » VCR 1 «, which both flash, appear in the remote control's display .
- 3 Press button **SELECT** on the remote control **for longer than five seconds** until » VCR 2 « appears in the display.
- 4 Press button **SET CLOCK** on the remote control.
- 5 Press button **STANDBY** on the remote control.
The video recorder is now switched over.
- 6 If you want to switch back to » VCR 1 «, simply follow the same sequence. » VCR 1 « appears in the displays of the remote control and the video recorder.



The new 16:9 wide screen standard






This video recorder can be used for wide screen TV sets. If a wide screen » 16:9 « identification is received during a video recording from an external source (e.g., MAC decoder) via the **EXTERNAL 2**-socket, this identification is recorded also.

During playback, this identification is routed from the **EXTERNAL 1**-socket via an AV-Eurocble to the TV set. The TV set automatically switches to the wide screen format. If the TV set is not equipped for playing back wide screen pictures or cannot process the identification, switch the video recorder to the normal » 4:3 « format. Refer to Chapter 2, section "Setting display language, dimmer, clock and date", step 5.



An extra feature of this remote control

If you have a TV set that can accept the remote control code of this remote control, you can also use the remote control for some TV functions.

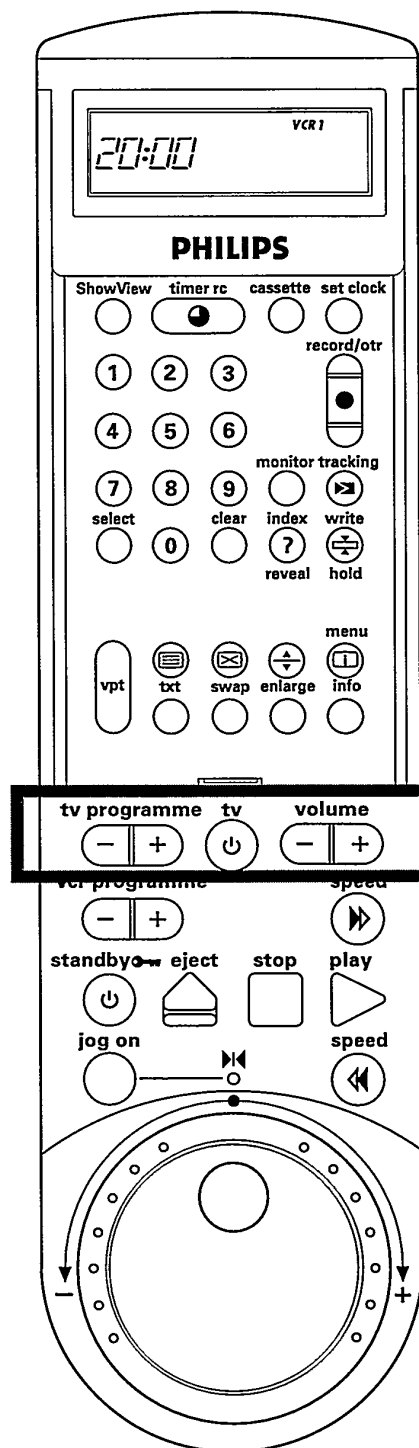
- * Switch TV on and off 
- * TV volume -/+  
- * TV channel number -/+  

This remote control is equipped with a number of remote control codes pre-defined for specific TV manufacturers. You can select the TV volume or channel number on your TV set as well as switch it on and off.

Note:

* If the selected code does not work on your TV set or if you can't find your TV manufacturer in the list, you can test all the codes one by one. Here is a list of some of the manufacturers:

Code number	TV set manufacturer
0	Philips, Pioneer, Hornyphon, Mediator, Aristona, Phonola, Radiola, SBR, Sierra, Erres, Pye, Dux, Schneider (F), Universum
1	Sinudyne
2	Finlux, Universum
3	Salora, Nokia, ITT, Luxor, Pioneer, Schneider, Dual
4	Orion
5	Panasonic
6	Telefunken *)
7	Telefunken, Thomson Brandt, Saba, Nordmende, Ferguson, Marconi, Continental, Edison *)
8	Sanyo
9	Grundig, Siemens




Note:

*) For code numbers » 6 « and » 7 «: When you are selecting TV channels, hold down button

TV PROGRAMME - and use the digit buttons **0-9** to select the programme number.




Enter the desired code number into the video recorder as follows:

- ❶ Press button **TV PROGRAMME -** and **TV VOLUME +** at the same time. The display shows, for example, » CodE 0 «.
- ❷ Use the digit buttons **0-9** to select the code number.
- ❸ To conclude, press button **STANDBY** .



Playback via the aerial cable

If your TV set does **not** have an AV-Eurosocket, you must use the **aerial cable already connected** which is used for playback from the video recorder.

- 1 Switch on the TV set and select the TV channel used for video recorder playback (refer to your TV set's operating instructions).
- 2 Remove the aerial cable from the aerial socket  of the video recorder so that only the cable connection remains between the TV set and the video recorder.
- 3 Switch off the video recorder with button  and press button . The buttons are located behind and to the right in the front cover, respectively.

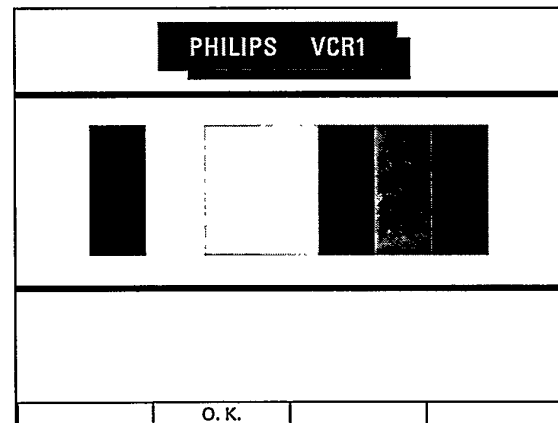
The video recorder now transmits a test picture which the TV set must receive. "TESTPICTURE" appears in the display.


- 4 Tune the TV set in the UHF range until this test picture appears on the screen. The video recorder was preset at UHF channel 36 at our factory.

Refer to the operating instructions of your TV set for setting the correct channel.

Note:

* During subsequent video recorder playback, check TV set sound and picture reception quality. If required, fine-tune the picture, colour and sound by adjusting the channel on the TV set.







- 5 Reinsert the aerial cable in the aerial socket . Your TV set is now set to your video recorder.

Note:

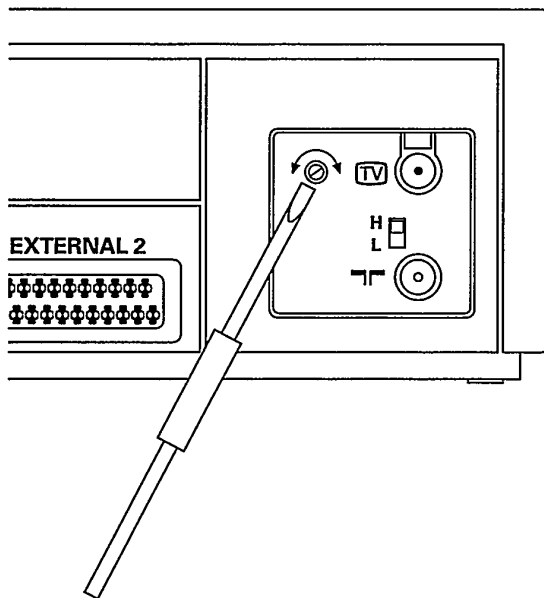
* Your video recorder occupies UHF channel 36. However, it is possible that in your reception area this channel is already occupied by another TV channel. In this case, the TV reception picture quality of one or perhaps many TV stations is reduced.

Should this be the case with your TV set, proceed as follows:

- ⑥ First check whether all TV stations function unchanged.
- ⑦ If the picture quality of one or more TV stations is reduced, confirm this by switching off the video recorder with button **STANDBY** . Check all the TV stations once again.
- ⑧ If the picture quality is worse only when the video recorder is switched on, you must turn the channel control  at the rear of the video recorder less than a quarter of a revolution with the **adjusting tool provided with your video recorder**.
- ⑨ Tune your TV set to your video recorder (steps ② through ⑤), until the test picture appears again.
- ⑩ Check again all the TV channels stored on your TV set. Repeat the channel adjustment  (steps ⑧ and ⑨) until there is no noticeable difference between the picture quality when the video recorder is on and when it is off.
- ⑪ Switch off the video recorder with button **STANDBY** .

Note:

* If you have not yet set the time/date and the display language as described in Chapter 2, "Installation", continue at that point with the initial installation.



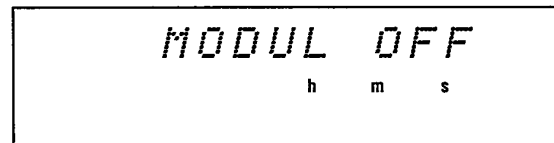
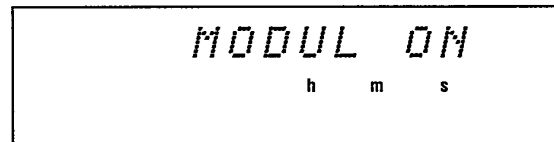
Switching off the integrated modulator

In the preceding section, we spoke of disturbances in TV reception. If the picture quality **cannot be improved** by the methods described, you can switch off the integrated modulator.

However, this is only possible if the TV set and video recorder are connected by an AV-Eurocable.

A cassette must not be in the video recorder.

- ① Press buttons **PLAY ►** and **EJECT ▲** on the video recorder simultaneously. The current position of the "MODUL ON" switch is indicated in the display.
- ② Press buttons **PLAY ►** and **EJECT ▲** again, for more than five seconds.
This switches to "MODUL OFF". You can switch back again in the same way.



9. BEFORE YOU CALL AN ENGINEER

Problem

The video recorder does not respond when a button is pressed

Possible cause

- * No power supply.
- * Programmed recording is in progress.
- * Technical disturbance: disconnect from the mains for 30 seconds, then reconnect. If this has no effect, you can:
 1. Disconnect from the mains.
 2. While holding down buttons **STANDBY** and **EJECT**, reconnect to the mains.

All data are reset (deleted).

Then **check the display language** on the video recorder.

If necessary, carry out the settings as described in chapter 2.

INSTALLATION.

HOW DO I INSTALL THE VIDEO RECORDER ?

in the paragraph

'Selecting the display language on the video recorder and the picture format of your TV set.

Remote control does not work

- * Batteries are weak.
- * Interference from fluorescent lamps or bright sunlight.
- * Child lock activated.

No playback from the video recorder

- * VCR 1/VCR 2 setting incorrect.
- * No recording on the cassette
- * Cassette has reached the end.
- * The channel number for the video record has been incorrectly selected or incorrectly set.
- * The connection cable between the TV set and the video recorder is loose.

Poor playback from the videorecorder

- * "Modulator" not in the "ON" position.
- * Use the **TRACKING** function when playing hired cassettes.
- * Cassette is badly worn or of poor quality.
- * Channel controller for TV set not properly adjusted.
- * Video heads are dirty. Load and remove a cassette several times. This activates the head cleaning function.

Recording not possible

- * TV channel has not been stored or has been incorrectly selected.

Programmed recording does not work

- * A cassette with erase protection has been inserted.
- * Time data programmed incorrectly.
- * Time/date are not properly set.
- * A cassette with erase protection has been inserted.
- * Cassette has reached the end.
- * The video recorder was in » TUNER MODE «.
- * PDC was switched on, but the "PDC time code" was incorrect.

TV set picture/sound disturbances

- * Refer to Chapter 8, "Particular functions and extras on your video recorder", section "Playback via the aerial cable" after point 6, as well as the section "Switching off the integrated modulator".



10. TECHNICAL DATA, ACCESSORIES

Technical data

- Mains voltage 180 to 240 V \pm 10 %
 - Mains frequency 47 – 63 Hz
 - Power consumption, 24 W typical
(18 W typical in stand by)
 - Wind/rewind time, 95 s typical for E-180
 - Ambient temperature during operation
+10 °C to +35 °C
 - Relative humidity 20 % to 80 %
 - Weight approx. 5.7 kg
 - Position for use max. 15 ° in all directions
 - Video resolution S-VHS \geq 400 lines
VHS \geq 240 lines
 - FM audio (SP) 20Hz – 20KHz (\leq 3dB)
 - Power failure protection: transmitter 1 year
typical. Clock/Timer 1 year typical.
- This video recorder complies with the EC radio interference regulations (82/499/EEC).

Dimensions 435 x 386 x 107 mm
(incl. feet)

Accessories

- Aerial cable
- Mains cable
- S-VHS-cable (Hosiden cable)
- Operating Instructions
- Adjustment tool for channel setting
- Remote control and batteries
- AV-Eurocable (scart cable)
- Audio cable (cinch cable)
- edit cable

In order to identify your video recorder in case of theft, enter the serial number as indicated right. The serial number (SER.NR.) is printed on the type plate fixed at the rear of your video recorder. In addition, all enquiries can be handled more efficiently. For this reason, keep this page in a safe place.

TYPE
RJ xx

VR 948
SER.NR.

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3112 416 03631
4411/0012



VR 948/13 M

ENGLISH

